

# Server Eraser

## - For erasing ProLiant servers!

Through Professional ExpertEraser™, Ibas now offer secure and effective erasure of hard drives connected to Array/-Raid controllers in Compaq ProLiant servers. To securely erase hard drives connected to Array controllers is technically advanced because the array controller typically does not allow direct access to the individual drives. In addition, the controller typically reserves areas on the drives for internal use such as caching, and configuration. With this unique solution you can erase the hard drives 100% even if they are connected to an array controller.

Erasing drives connected to array controllers used to be a time consuming process. Typically the drives had to be removed from the server/enclosure, and dismantled from the drive carrier and connected to a traditional SCSI host adapter. The individual drives could then be erased using standard erasure software such as ExpertEraser™. Server Eraser eliminates the need for this cumbersome and manual process.

Server Eraser is distributed on a bootable CD that is used to start the ProLiant server. The program will automatically detect the installed SmartArray controllers, and the individual drives connected to them. The user has the option to select/deselect controllers, buses/channels, or individual drives. This gives the user maximum flexibility in selecting which drives should be erased.

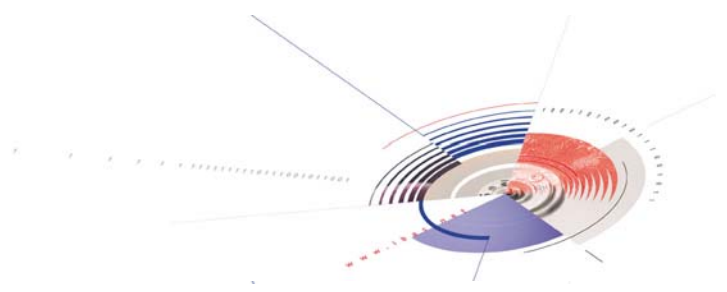
Server Eraser operates on physical drives, and not on logical volumes. The reason for this is security. By operating on individual physical drives we can guarantee full access to all areas on the drives. This is not possible by operating on logical volumes.

### Features:

- Application is hosted by the Linux OS
- Secure and effective erasure
- Erase individual drives, no disassembly required
- Simple user interface
- Generates an erasure certificate
- Reporting of individual drives (model, serial number)
- Use HMAC-MD5 signature, to ensure certificate integrity
- Complies with US Department of Defence Standard DoD 5220-22M and NATO standards
- Licenses ordered and delivered by e-mail
- Saves time since all drives are erased in parallel
- Certificate is stored on floppy diskette



*Ibas offers effective erasure of hard drives in servers and drive enclosures, connected to array controllers.*



**Ibas has more than 20 years experience in Data Recovery. Through these years we have built extensive knowledge about how hard drives work, and how they interact with the rest of the system. Most importantly we know how to get access to all areas of a hard drive. This knowledge is essential to ensure erasure of 100% of the data on a hard drive, and is applied in the Server Eraser product. The result is erasure of 100% of the drive's data areas, even if the drives are connected to an array controller.**

There are large differences between erasing logical volumes and erasing individual drives the way Server Eraser does. In addition to the technical differences there are also important differences in security. When operating on logical volumes it is hard to verify that all physical blocks are included in the volumes. The actual configuration of the array will directly influence which data are erased. Another problem is drives marked as 'spare'. Such drives are typically not part of a logical volume, but may contain important and sensitive data. Server Eraser does not distinguish between spare and 'normal' drives. Server Eraser will detect and erase all physical drives connected to the controller.

**Erasure procedure:**

1. Boot the server with the Server Eraser CD.
2. Installed array controller and hard drives will be automatically detected.
3. The user can select which drives to erase. Default is all detected drives.
4. The selected drives will be erased in parallel.
5. When the erasures are done the user can generate a report acting as erasure certificate.

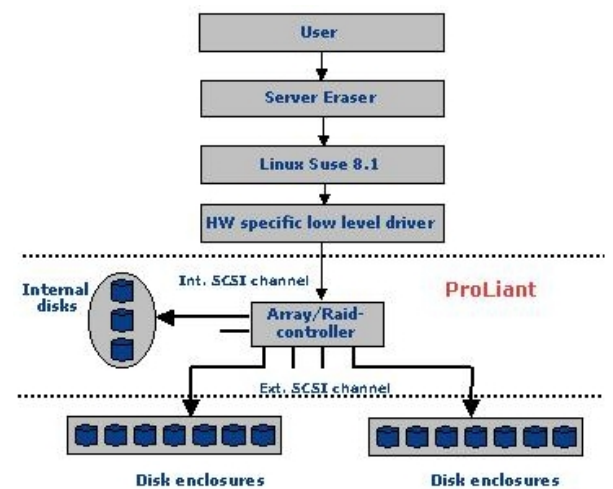
One advantage with Server Eraser is that many drives can be erased in parallel. This means that you can start one process to erase all drives, and no user interaction is required until all drives are done.

The erasure speed is mostly determined by limitations in the hardware. This means that how fast Server Eraser will erase a given system, depends on the controller and drive types.

When all drives are erased, the server can be reconfigured using the HP/Compaq SmartStart CD.

**System requirements:**

- Intel based ProLiant
- CD-ROM or DVD drive
- Compatible with Linux Kernel 2.4.20
- Array/Raid-controller types:
  - Smart Array 5300
  - SMART-2/P
  - Smart Array 3200
  - Raid LC2
- SCSI drives
- Floppy drive (for storing erasure certificate)



*A technical overview of Server Eraser.*



*Server Eraser is delivered on a CD, and is part of Professional ExpertEraser™*

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