

Overview

- What is IT Data Destruction
- Risks vs. Rewards
- Review of Data Destruction Methods
- Process Controls for Successful Data Destruction
- Decision Points



IT Data Destruction



- Removal of all stored information on an electronic device to the point that it is irretrievable by conventional means.
- Shredding, Pulverizing, Smelting
- Degaussing
- Software Based Overwriting



Issues



Risks

- Identity Theft
- Loss of PrivateInformation
- Loss of Intellectual Property
- Loss of Competitive Information
- Violation of Privacy Laws

Rewards

- Higher Resale Value
- Increase Green Results
- Brand Protection

Privacy Regulations



Laws and Regulations mandating proper management of information:

Sarbanes-Oxley Public Company Accounting Reform & Investor Act

Regulates accounting and information handling of all publicly traded companies to help prevent accounting fraud.

Penalties & Fines

- •Directors and Officers per violation \$1,000,000.00
- •Institution penalty per violation \$5,000,000.00
- •Years in prison 20

Gramm-Leach-Bliley Act (GLB) Financial Service Modernization Act

Ensures the security and confidentiality of customer records and information in the banking, credit, insurance, investing and financial services industries.

Penalties & Fines

- Directors and Officers per violation \$10,000.00
- •Institution penalty per. violation \$100,000.00
- •Years in Prison 5 to 12
- Impact on operations Cease and Desist
- •FDIC Insurance Terminated
- •Individual fines \$1,000,000.000
- •Institutional (civil fines) 1% of assets

Health Insurance Portability and Accountability Act (HIPAA)

Regulates healthcare organizations in the secure electronic transmissions, secure storage and disposal of patient information.

Penalties & Fines

- •Institution 450,000.00 to \$250,000.00
- •Years in prison 1 to 10
- •Individual civil fines \$25,000.00

Fair and Accurate Credit Transactions Act (FACT Act)

Contains provisions intended to combat consumer fraud including identity theft by regulating the destruction of papers containing consumer information.

Penalties & Fines

- •Institution -\$11,000.00
- •Individual civil fines



Total Destruction

Includes machinery to degauss, shred, pulverize, or smelt

PROS

- Assures complete destruction of data
- Shredding or degaussing can be done onsite for hard drives

CONS

- Reduces value of equipment for resale
- Creates a waste stream with hazardous components
- May require manual removal of internal hazards before destruction
- Usually requires offsite destruction
- Creates need to manufacture more product

Sanitization

Overwrite data using software or manufacture device reset

PROS

- Reliable data destruction technique if properly executed and controlled
- Can be done onsite before equipment leaves your control
- Expense decreases with volume
- Increases recovery value of equipment
- Extends the useful life of equipment and reduces manufacturing needs

CONS

 Higher risk of inadvertent data disclosure if process is not controlled



Off-site shipments

- Secure material in your own storage
- Secured locked containers to transport material
- Secured storage at destination facility
- Tracking by weights, quantities, or serial #'s with accounting for each at time of receipt and at time of destruction.
- Client witnessed destruction on-site or through video.

Software Process

- Use labels for visual indication of sanitization.
- Use logging features in software to account for successful completion of each device
- Verify successful completion with software verification pass
- Implement Quality Assurance process to validate each device successfully completed in the logs. Utilize a 2nd person for the QA to maintain separation of duties.
- Create individual responsibility and tracking of each device being sanitized.
- Inspect inside of equipment for multiple drives
- Have process and sampling of equipment independently verified

NAID Certification

The NAID Certification Program establishes standards for a secure destruction process including such areas as security, employee hiring and screening, operational destruction process, and insurance.



- To promote the interests and general welfare of the information destruction industry; to encourage efficiency and bring about improvement in such services; to extend the scope of the industry, and to encourage the use of the services provided by members by commerce, industry, education institutions, and government.
- To create a wider recognition of the industry as meeting the needs of commerce, industry, education institutions, and government and its role in protecting the confidentiality of information and records.
- To conduct and promote such other logical activities that will enhance the economic growth of the information destruction industry.









Decisions

- Risk Tolerance of the Business
 - CIA vs. Joe's Automotive Repair
 - Full Destruction or Software Sanitization
 - Onsite or Offsite Data Destruction
 - Internal or Outsourced
- Total Cost of Ownership
 - Can you extend the product life
 - What is the right time to resell

Tools



NAID Certification

http://www.naidonline.org/certification.html

 NIST's Guidelines for Media Sanitization – Special Publication 800-88

http://csrc.nist.gov/publications/nistpubs/800-88/NISTSP800-88 rev1.pdf

Recommendations



- Design a good process with checks and balances
 - Physical Security
 - Separation of Duties
 - Labeling
 - Quality Assurance and Verification
- Audit your vendor's process
- NAID Certification?
- Onsite Portable HardDrive Shredder
- Consider all Electronics with Storage Capabilities

