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Blank is

secure efficient compliant sustainable

Data Sanitization 101:
The Fundamentals of Secure Data Destruction

Yusuf Iqbal Vieri
Solution Consultant
Tech Titan – Sole Distributor of Blancco

blancco.com/blank-is

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Tech Titan Solutions Pillars

IT Infrastructure & Network Security

- Ruijie
- Array
- SANGFOR
- senhasegura
- Quad Miners
- DARKTRACE
- radware
- SUNDRAY

Endpoint & Mobile Security

- kaspersky
- CYBOTS
- ZIMPERIUM
- SANGFOR

Server & Application Security

- V-KEY TRUST SIMPLIFIED
- kaspersky
- ZIMPERIUM
- Checkmarx

Cybersecurity Training

- TERRANOVA SECURITY

Data Protection Solutions

- FORTRA
- titus by HelpSystems
- DIGITAL GUARDIAN
- vera by HelpSystems
- blancco
- tripwire by HelpSystems
- PHISHLABS by HelpSystems

Offensive Security Solutions

- FORTRA
- digitaldefense by HelpSystems
- coresecurity by HelpSystems
- cobaltstrike by HelpSystems
- OUTFLANK
- Hive Pro

SOC Solution

- ALERT LOGIC by HelpSystems
- kaspersky

Many of us associates Blancco with this..

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About Blancco

blancco

Reduce Risk.
Increase Efficiency.
Be Sustainable.™

1997
Founded

2021
Carbon neutrality achieved

350+
Employees worldwide

Acquired by Fransciso Partners
Dec 2023

20+
Countries with Blancco offices

70
Countries served

2000+
Customers

24x7
Customer support globally

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Blancco Service Stats

100%
Tamper-proof audit trail

100%
Compliance with regulatory standards

25+
Standards for data erasure

14+
Global certifications, approvals & recommendations

40+
Patents granted or filed

150K
Data erasures performed daily

74m kg
Devices sanitized in FY22

0
Data breaches

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Data Erasure

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- Includes verification & certification with every erasure
- Supports environmental initiatives
- Allows organizations to retain the resale value of the storage devices

Data erasure is the software-based method of securely overwriting data from any data storage device using zeros and ones onto all sectors of the device. By overwriting the data on the storage device, the data is rendered unrecoverable and achieves data sanitization.

Why Consider It?

- **Data Security**
- **Compliance and Regulations**
- **Sustainability**
- **Efficiencies and Money Saving**

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The most certified data erasure solution in the world

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We go above and beyond to achieve compliance

We meet the highest standards for secure data erasure in accordance with privacy and security regulations across the globe. Blancco Data Eraser solutions support 25+ erasure standards, including:

- Air Force System Security Instruction 5020
- Aperiodic Random Overwrite
- Australian Government Information Security Manual (AGISM)
- Blancco SSD Erasure
- Bruce Schneier's Algorithm
- BSI-GS
- BSI-GSE
- CESG CPA – Higher Level
- DoD 5220.22 M
- DoD 5220.22 M ECE
- NIST 800-88 Clear
- NIST 800-88 Purge
- Firmware Based Erasure
- Extended Firmware Based Erasure
- IEEE 2883-2022 Clear
- IEEE 2883-2022 Purge
- HMG Infosec Standard 5, Higher Standard
- HMG Infosec Standard 5, Lower Standard
- National Computer Security Center (NCSCTG-025)
- Navy Staff Office Publications (NAVSO P-5239-26)
- NSA 130-1
- OPNAVINST 5239.1A
- Peter Gutmann's Algorithm
- U.S. Army AR380-19
- Royal Canadian Mounted Police RCMP TSSIT OPS-II
- BSI-2011-VS
- Cryptographic Erasure
- TCG Cryptographic Erasure
- Random Byte Overwrite (3x)

NIST National Institute of Standards and Technology U.S. Department of Commerce

National Cyber Security Centre a part of GCHQ

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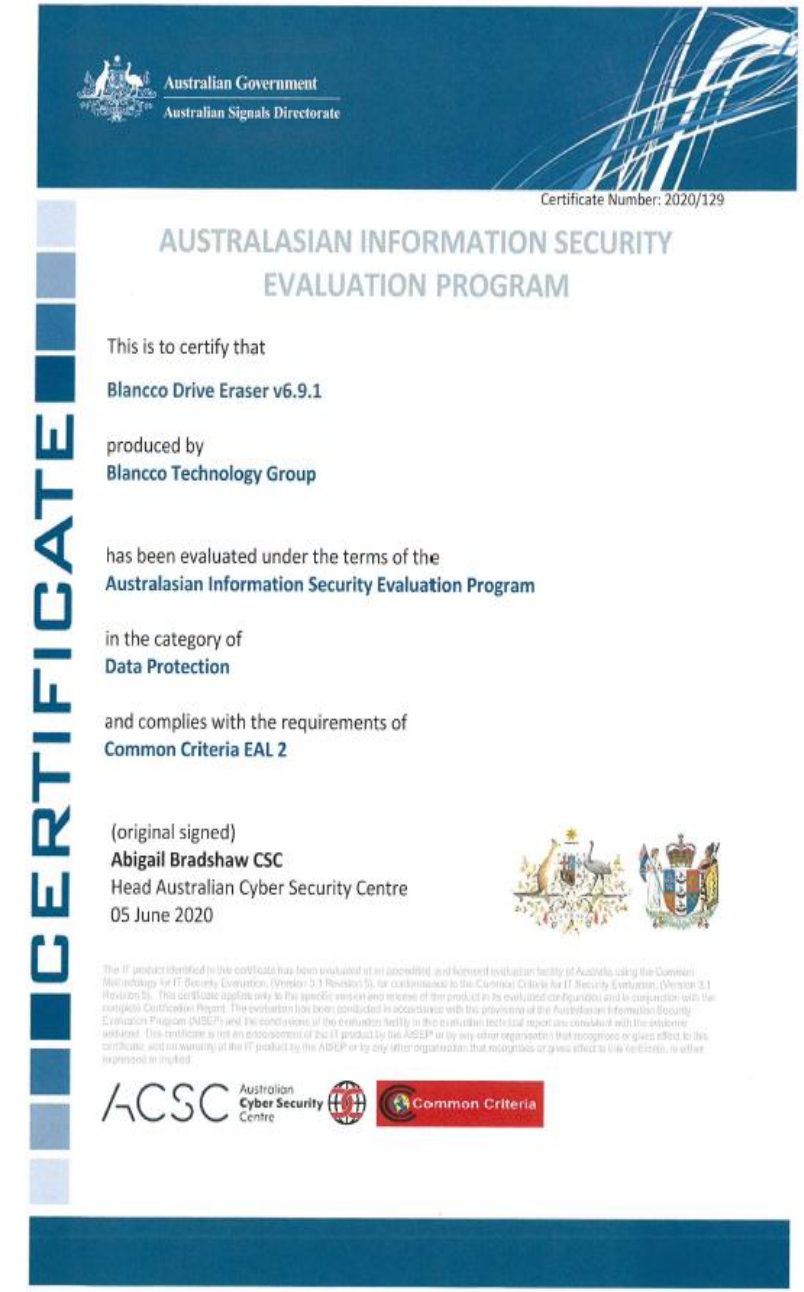

Australian Government
Australian Signals Directorate

Certificate Number: 2020/129

CERTIFICATE

AUSTRALASIAN INFORMATION SECURITY EVALUATION PROGRAM

This is to certify that

Blancco Drive Eraser v6.9.1

produced by

Blancco Technology Group

has been evaluated under the terms of the

Australasian Information Security Evaluation Program

in the category of

Data Protection

and complies with the requirements of

Common Criteria EAL 2

(original signed)
Abigail Bradshaw CSC
Head Australian Cyber Security Centre
05 June 2020

The IT product identified in this certificate has been evaluated at an accredited and licensed evaluation facility in Australia using the Common Methodology for IT Security Evaluation, (Version 3.1 Revision 5), for conformance to the Common Criteria for IT Security Evaluation, (Version 3.1 Revision 5). This certificate applies only to the specific version and release of the product in its evaluated configuration and is in conjunction with the complete Certification Report. The evaluation has been conducted in accordance with the provisions of the Australasian Information Security Evaluation Program (AISEP) and the conclusions of the evaluation facility in the evaluation technical report are consistent with the evidence adduced. This certificate is not an endorsement of the IT product by the AISEP or by any other organisation that recognises or gives effect to this certificate, and no warranty of the IT product by the AISEP or by any other organisation that recognises or gives effect to this certificate, is either expressed or implied.

ACSC Australian Cyber Security Centre

Common Criteria

ADISA®

PRODUCT CLAIMS TESTING CERTIFICATE

CLAIM NUMBER: ADPC0132 MADE BY: OMKAR ZUNJURKE
OF: BLANCCO TECHNOLOGY GROUP IP OY

was tested using the
ADISA Product Claims Test Method v1.0.

ADISA CERTIFIES THAT

BLANCCO DRIVE ERASER V7.2.0

was executed on:
SanDisk 128Gb SSD Model: SDSSDA-120G-G27 (SATA)
Kingston RBUSNS8154P3256GJ1, 256GB (NVMe)

and achieved the following results as outlined in the testing method.

TESTING	DATE	VALID UNTIL	RESULT
Test Level 2	11.02.2022	11.02.2025	PASS

This test validates that this product when used in accordance with the specification within claims test document ADPC0132 can be used to sanitise data against ADISA Test Level 2 on the sample of devices identified in the claim.

For and on behalf of ADISA

Steve Mellings – Founder

For further information please contact ADISA today on 0044 1582 361743 or email us info@adisa.global

VALIDITY OF CERTIFICATE
Due to potential changes in threat actor's capability the certificate is due for revalidation at a maximum of 12 months from date of issue.

DISCLAIMER
Use of this certified product for the purpose of sanitizing data from devices tested needs to be done so after a risk assessment process. ADISA reserves the right to review the validity of this award upon changes in threat landscape.

LIABILITY
ADISA accepts no liability for any claims resulting from the use of the product tested.

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Blancco Drive Eraser is Common Criteria and ADISA Certified

- In June of 2020, the Australasian Certification Authority (ACA) awarded Blancco Drive Eraser Common Criteria certification via its Australasian Information Security Evaluation Program (AISEP).
- The award is recognised by all members of the Common Criteria Recognition Arrangement (CCRA).
- ADISA has issued a certificate for Blancco Drive Eraser v7.2.0, confirming that it can sanitize data against ADISA Test Level 2 on specified devices. The certificate is valid for 12 months from the issue date and must be revalidated due to potential changes in threat actor's capability. ADISA accepts no liability for any claims resulting from the product's use and requires a risk assessment process to be done before using it for data sanitization.

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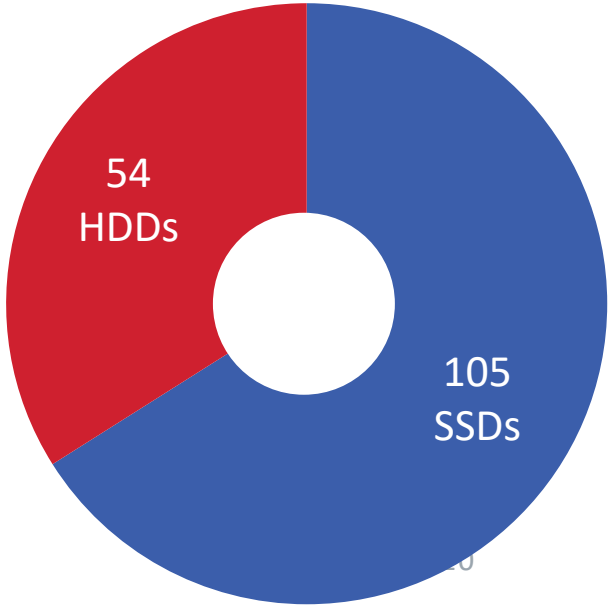
More than 15% of drives tested contained sensitive information

ebay



Between September and October 2018, Blancco IT staff in the U.S., Germany, Finland and the U.K. hit eBay, the world's largest online marketplace, to purchase over 150 used SSDs and HDDs

Study at a Glance

Total Drives Evaluated: 159
Total Drives with some Type of Data Found: 66
Total Drives with PII Found: 25

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But What About?

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Encryption

- Is not applied to all data, creating a foothold for entry
- Duplicate keys, human error, manufacturer missteps create gaps in protection
- Drives may not be encrypted from the very beginning
- Encryption algorithms have a shelf life; erasure is “quantum secure”

File Shredding, Formatting, Deleting

- Data destruction is unverified, falling short of sanitization standards
- These methods have been proven to leave data behind
- Lack of certified results fails proof of regulatory compliance
- Often manual and time consuming

Physical Destruction

- Often relies on short or long-term storage periods with data intact
- Vulnerable to chain-of-custody and audit trail gaps
- Poorly applied or mismatched destruction methods fail to render data unrecoverable
- Generates needless e-waste and shortcuts life of functional devices

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Destruction and Sustainability

- What not to do!

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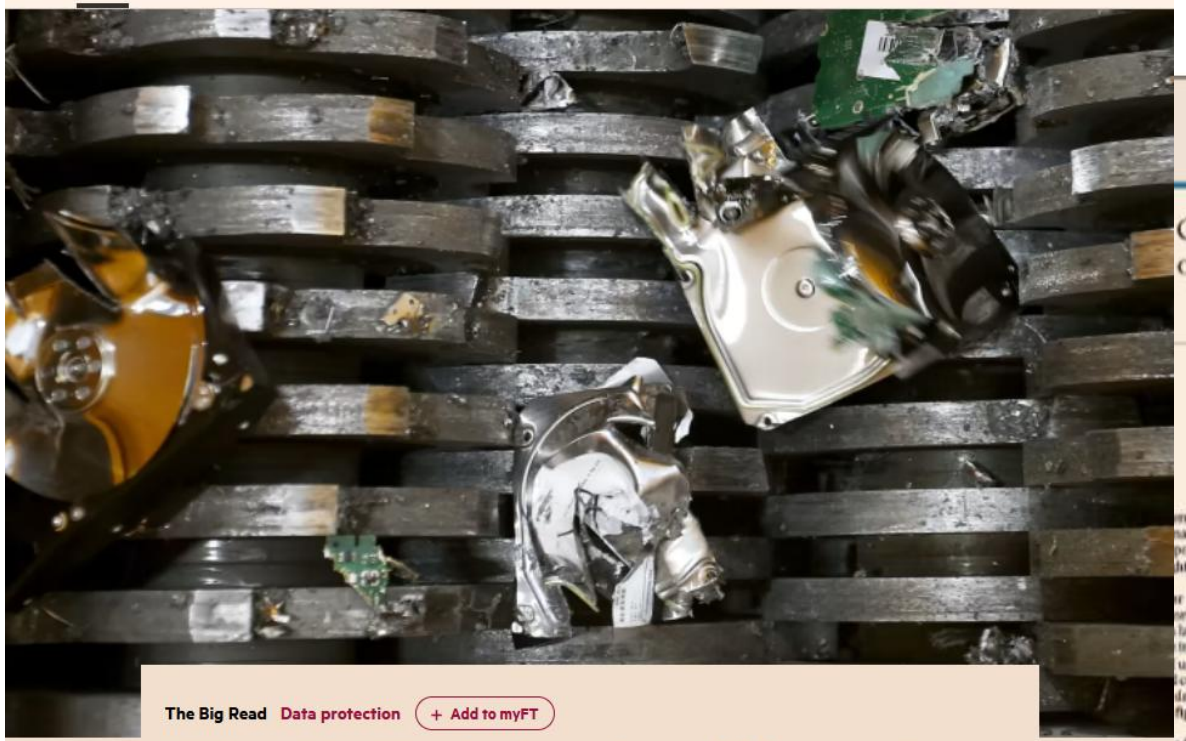
FINANCIAL TIMES

HOME WORLD US COMPANIES TECH MARKETS CLIMATE OPINION WORK & CAREERS LIFE & ARTS HTSI



The Big Read Data protection + Add to myFT

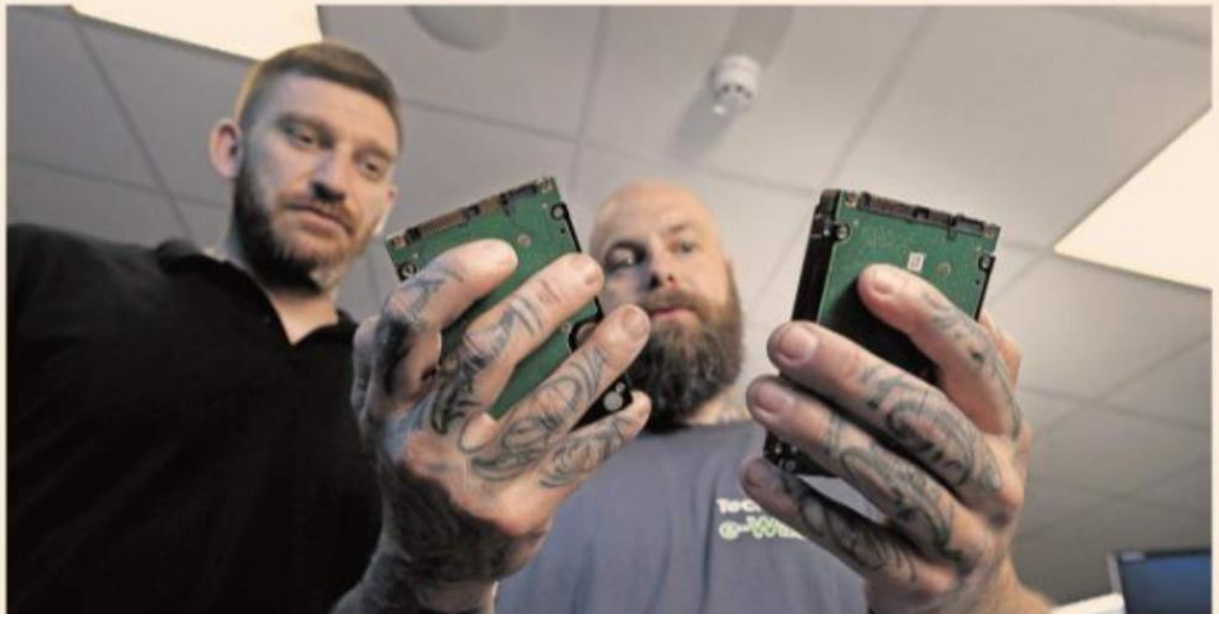
Why Big Tech shreds millions of storage devices it could reuse

FT BIG READ. TECHNOLOGY

Companies like Amazon and Microsoft routinely destroy millions of used hard drives in the name of data security – but industry insiders say they are ignoring a better, greener and cheaper option.

By Alexandra Heal and Anna Gross

'We shred everything'



https://www.ft.com/content/31185370-87f3-4ecb-b64d-341bbc4e5c22

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E-Waste on the Rise!

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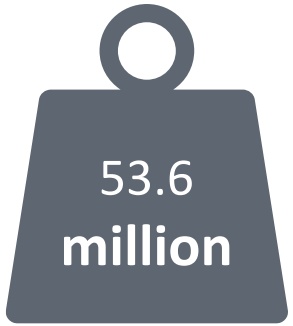
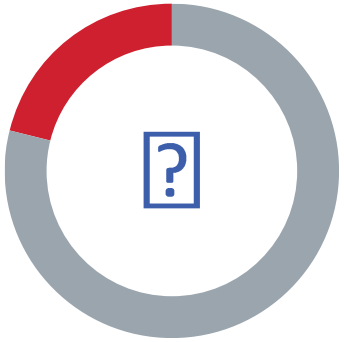
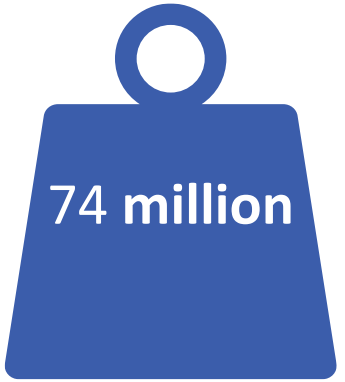


A record 53.6 million metric tonnes of electronic waste was generated worldwide in 2019 according to the UN's Global E-waste Monitor 2020

106 x the weight of the Burj Khalifa, the tallest building in the world



21% increase in just five years.



Expected to increase to 74 million metric tonnes by 2030

Source: www.globalewaste.org

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Sustainability& ESG

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The Green SIDE of Blancco

A carbon-neutral supplier, we reinforce enterprise ESG goals while prioritizing strict data protection and regulatory compliance.

- **Secure Device Reuse**
  We protect businesses while extending the life of functional technology.
- **IT Asset Circularity**
  We slow the need for new device creation.
- **Diminished ROT**
  We lessen data storage needs—and related emissions.
- **E-waste Reduction**
  We minimize landfill-bound electronics—and their detrimental impact to developing regions.

In FY21, Blancco securely sanitized an estimated 68.2M kg of electronic equipment, with a pre-use carbon footprint of 5.6B kg.

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Regulations

- What to comply with?

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Regulations are here to stay – and growing

EU General Data Protection Regulation: Right to be Forgotten

- FINES - Non-Compliance could result in up to 4% of turnover OR €20 MM – whatever is GREATER!
- ANY EU citizen can demand his / her records be expunged – and the organization this is requested from must provide proof
- Went into effect May 2018—companies are already receiving large fines

Global & Regional Data Protection Laws & Standards

- Japan's Act on the Protection of Personal Information – right to erasure
- Security frameworks & regulations – NIST: SP 800-88r1 – sanitization in US
- ISO 27001 – requires any sensitive data be securely overwritten prior to disposal or re-use
- PIPEDA (Canada) & HIPAA (U.S.) specify healthcare data must be erased after it passes its retention date

Number of country-specific data-protection laws:

1

137

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Regulations and Compliance

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GDPR
EU General Data Protection Regulation

Information Security Management System
ISO 27001
Certified

HIPAA COMPLIANCE

PCI DSS COMPLIANT

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Latest Updates in Malaysia

Pindaan Akta Perlindungan Data Peribadi dibentang di Dewan Rakyat

Oleh Farah Marshita Abdul Patah - Julai 10, 2024 @ 2:16pm
farahmarshita@bh.com.my

Menteri Digital, Gobind Singh Deo. - Foto fail BERNAMA

KUALA LUMPUR: Rang Undang-Undang (RUU) Perlindungan Data Peribadi (Pindaan) 2024 yang antara lain bertujuan memastikan perundangan perlindungan data peribadi di Malaysia adalah selaras dengan piawaian, perubahan serta perkembangan undang undang pada peringkat global dibentang untuk bacaan kali pertama di Dewan Rakyat hari ini.

RUU itu dibentang Menteri Digital, Gobind Singh Deo yang memaklumkan bacaan kali kedua RUU itu dijadual dibentangkan pada mesyuarat yang sama.

Malaysia's Personal Data Protection Act Gets Major Updates!

On 16th July 2024, the Personal Data Protection (Amendment) Bill 2024 was passed by the Malaysian Parliament following its second and third readings presented by Minister of Digital, YB Gobind Singh Deo. This amendments significantly boosts and strengthens the data privacy protection in Malaysia.

- ❑ Increased Fines! – The maximum penalty for violating any of the 7 Personal Data Protection Principles is more than DOUBLE, from RM300,000 to RM1 million
- ❑ Data Processor Liability – Data Processors now face statutory liability for breaching the Data Security Principle
- ❑ Data Portability – Individuals gains the right to request their data to be transferred to another service provider
- ❑ Mandatory Data Breach Notification – Both Data Controllers and Processors MUST notify the Personal Data Protection Commission, Data Subjects in case of a data breach
- ❑ Data Protection Officers – The appointment of a DPO becomes MANDATORY for both Data Controllers & Processors

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ISO 27001

ISO is an independent, non-governmental international organization with a membership of 164 national standards bodies. Its headquarters are in Switzerland.

"All items of equipment containing storage media should be verified to ensure that any sensitive data and licensed software has been removed or securely overwritten prior to disposal or re-use."

(§ 11.2.7 Control, ISO 27001:2013, Secure Disposal or Re-Use of Equipment)

Note: Now under re-development

ISO/IEC CD 27002

(ISO reviews every five years)

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The Importance of Verification

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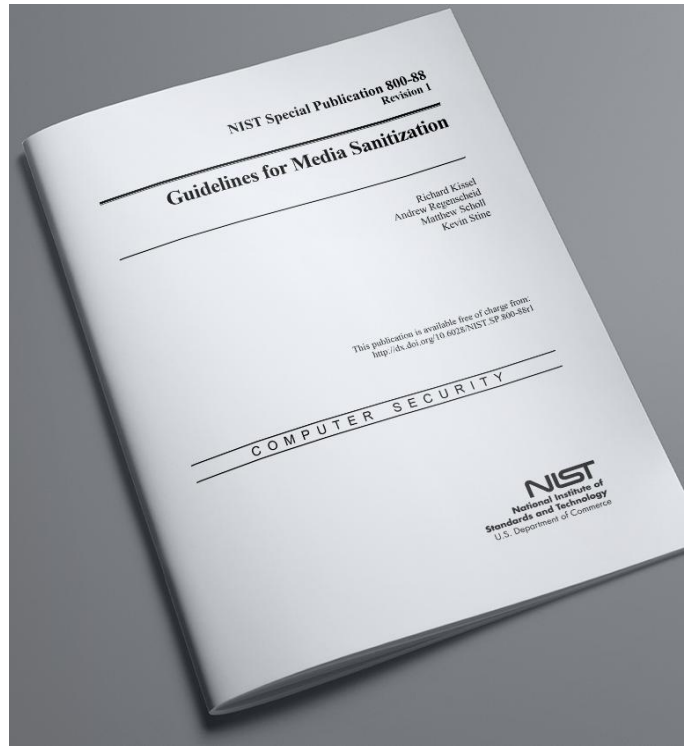
Verifying the selected information sanitization and disposal process is an essential step in maintaining confidentiality. Two types of verification should be considered. The first is verification every time sanitization is applied…The second is a representative sampling verification, applied to a selected subset of the media. If possible, the sampling should be executed by personnel who were not part of the original sanitization action."

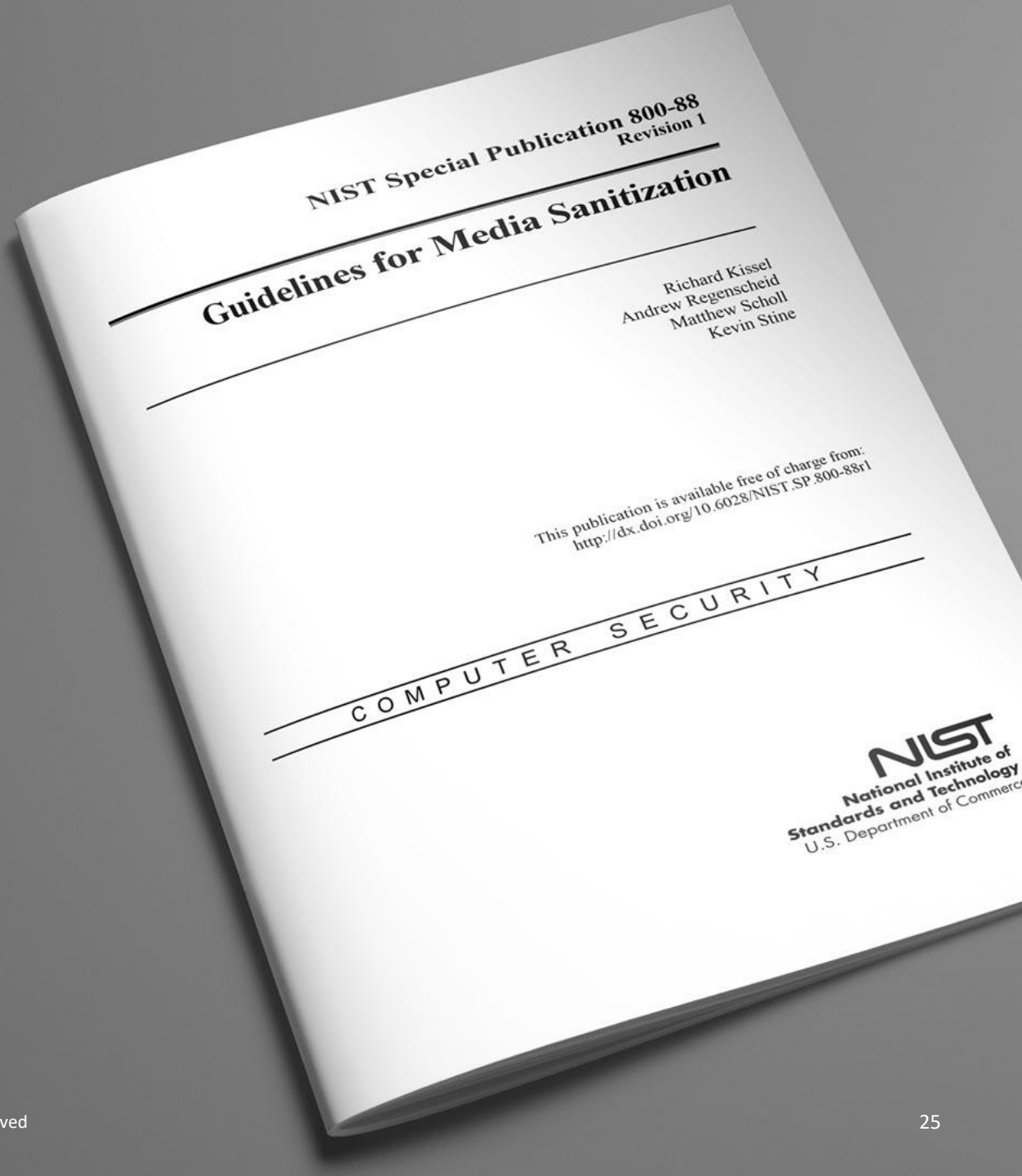
— NIST SP 800-88, Rev.1,
"Information Sanitization and Decision Making."



NIST 800-88R1 – A global reference since 2014

A U.S. government document that provides methodical guidance when it comes to sanitizing data from electronic storage media and how to implement secure best practices.
Implementation – Verification – Audit trail

Purge: The highest security level, can be achieved for both HDD and SSD drives.



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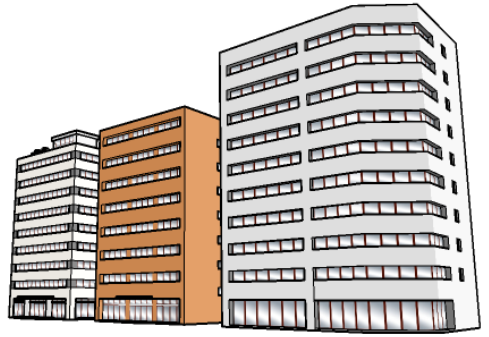
Chain of Custody challenges

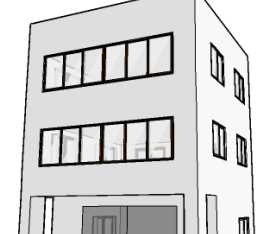
Japan Local Government

Server
End of lease:
approx. 500 HDDs

Leasing company



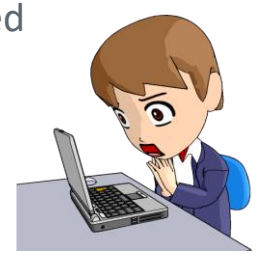
Outsourced operation
to disposal partner



An employee
stole and
resold
HDDs

Disposal company

Online
auction



Data Leak discovered

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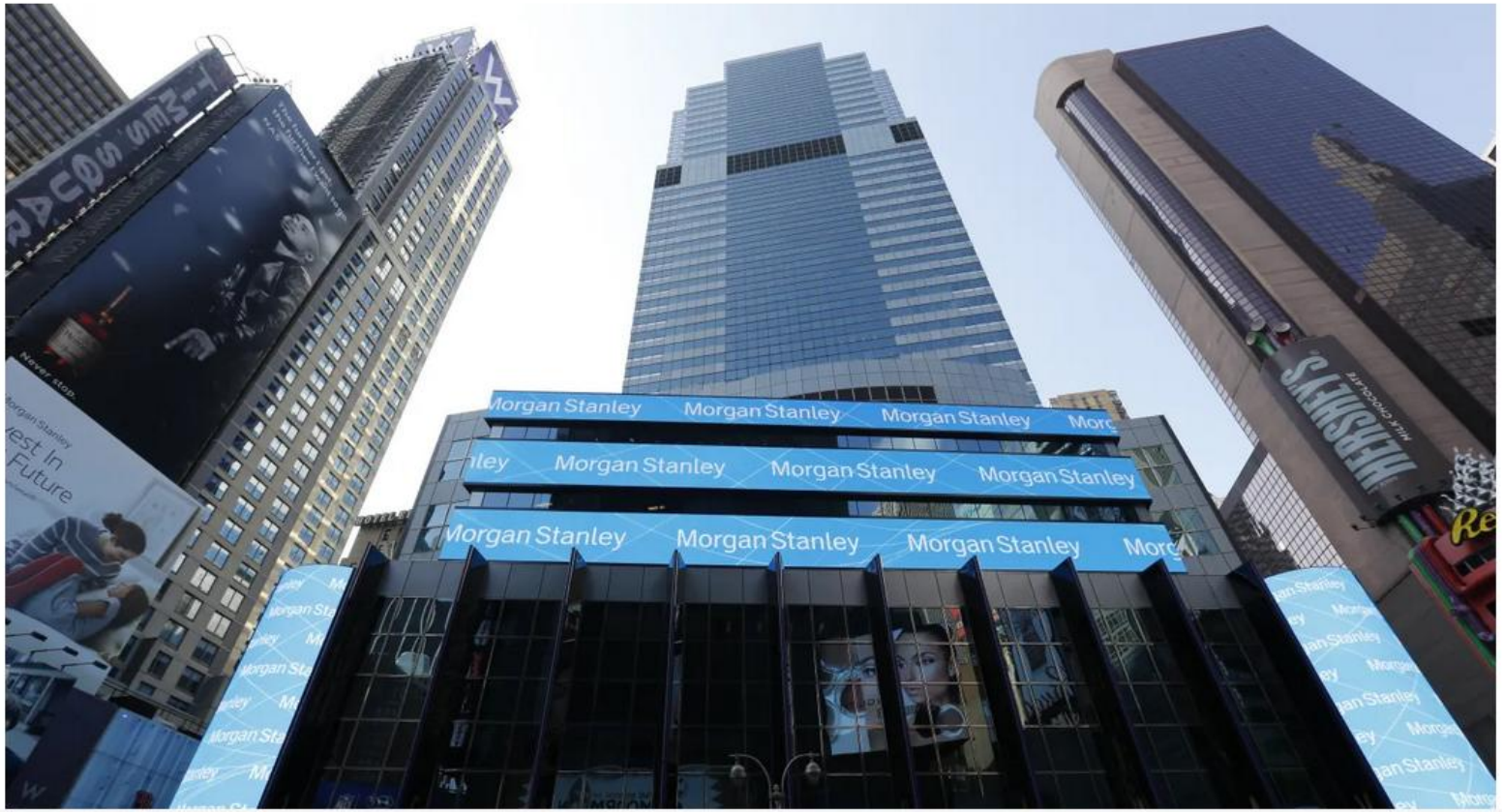
Morgan Stanley to pay $35M after hard drives with 15M customers' personal data turn up in auction

Carly Page @carlypage_ / 10:05 PM GMT+8 • September 21, 2022

Comment



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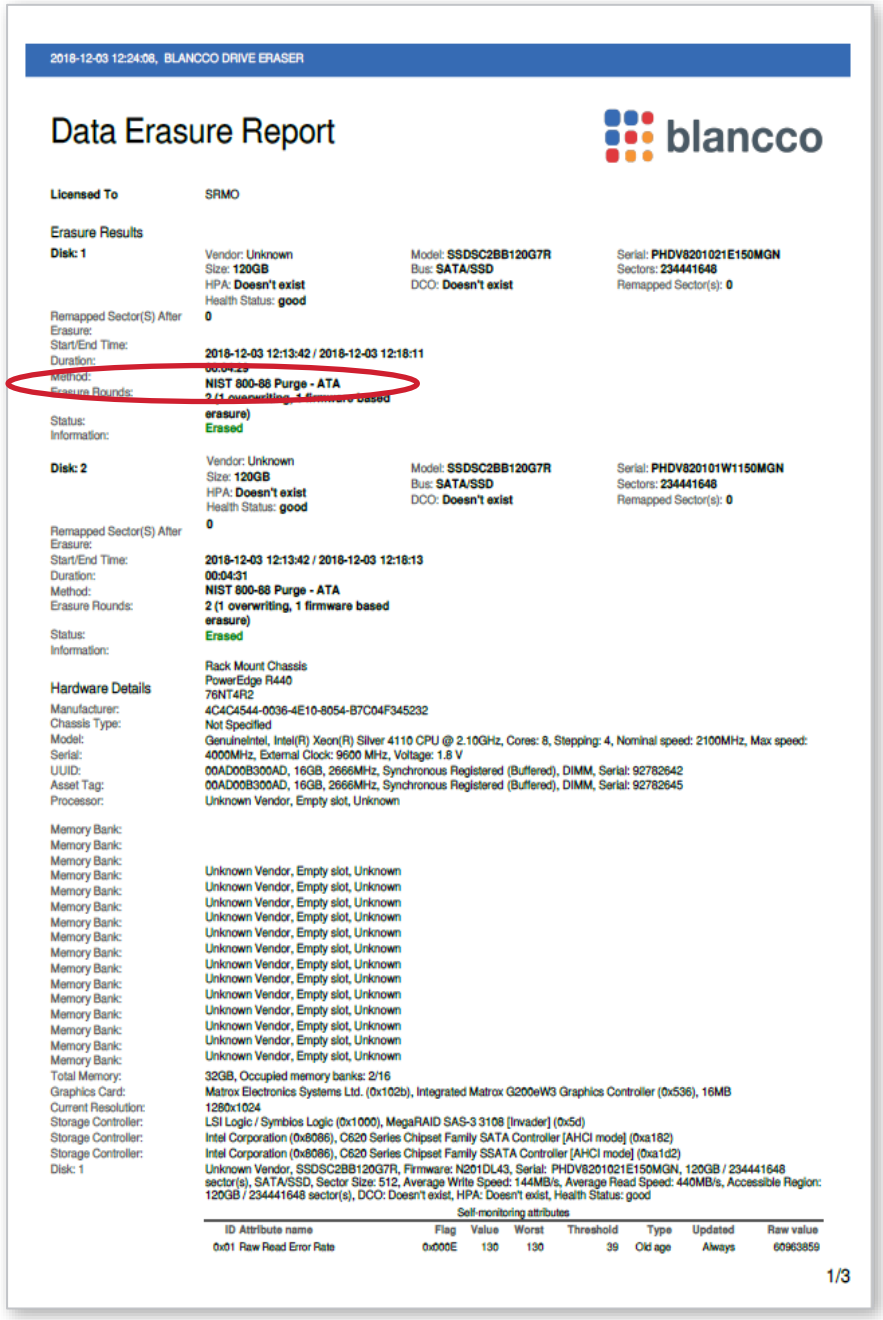

2018-12-03 12:24:08, BLANCCO DRIVE ERASER

Data Erasure Report

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Licensed To SRMO

Erasure Results

Disk: 1
Vendor: Unknown | Model: **SSDSC2BB120G7R** | Serial: **PHDV8201021E150MGN**
Size: **120GB** | Bus: **SATA/SSD** | Sectors: **234441648**
HPA: **Doesn't exist** | DCO: **Doesn't exist** | Remapped Sector(s): **0**
Health Status: **good**

Remapped Sector(S) After Erasure: **0**
Start/End Time: **2018-12-03 12:13:42 / 2018-12-03 12:18:11**
Duration: **00:04:29**
Method: **NIST 800-88 Purge - ATA**
Erasure Rounds: **2 (1 overwriting, 1 firmware based erasure)**
Status: **Erased**
Information:

Disk: 2
Vendor: Unknown | Model: **SSDSC2BB120G7R** | Serial: **PHDV820101W1150MGN**
Size: **120GB** | Bus: **SATA/SSD** | Sectors: **234441648**
HPA: **Doesn't exist** | DCO: **Doesn't exist** | Remapped Sector(s): **0**
Health Status: **good**

Remapped Sector(S) After Erasure: **0**
Start/End Time: **2018-12-03 12:13:42 / 2018-12-03 12:18:13**
Duration: **00:04:31**
Method: **NIST 800-88 Purge - ATA**
Erasure Rounds: **2 (1 overwriting, 1 firmware based erasure)**
Status: **Erased**
Information:

Hardware Details

Rack Mount Chassis
PowerEdge R440
76NT4R2
Manufacturer: 4C4C4544-0036-4E10-8054-B7C04F345232
Chassis Type: Not Specified
Model: GenuineIntel, Intel(R) Xeon(R) Silver 4110 CPU @ 2.10GHz, Cores: 8, Stepping: 4, Nominal speed: 2100MHz, Max speed: 4000MHz, External Clock: 9600 MHz, Voltage: 1.8 V
Serial: 00AD00B300AD, 16GB, 2666MHz, Synchronous Registered (Buffered), DIMM, Serial: 92782642
UUID: 00AD00B300AD, 16GB, 2666MHz, Synchronous Registered (Buffered), DIMM, Serial: 92782645
Asset Tag: Unknown Vendor, Empty slot, Unknown
Processor:

Memory Bank: Unknown Vendor, Empty slot, Unknown
Memory Bank: Unknown Vendor, Empty slot, Unknown
Memory Bank: Unknown Vendor, Empty slot, Unknown
Memory Bank: Unknown Vendor, Empty slot, Unknown
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Memory Bank: Unknown Vendor, Empty slot, Unknown
Memory Bank: Unknown Vendor, Empty slot, Unknown

Total Memory: 32GB, Occupied memory banks: 2/16
Graphics Card: Matrox Electronics Systems Ltd. (0x102b), Integrated Matrox G200eW3 Graphics Controller (0x536), 16MB
Current Resolution: 1280x1024
Storage Controller: LSI Logic / Symbios Logic (0x1000), MegaRAID SAS-3 3108 [Invader] (0x5d)
Storage Controller: Intel Corporation (0x8086), C620 Series Chipset Family SATA Controller [AHCI mode] (0xa182)
Storage Controller: Intel Corporation (0x8086), C620 Series Chipset Family SSATA Controller [AHCI mode] (0xa1d2)
Disk: 1 Unknown Vendor, SSDSC2BB120G7R, Firmware: N201DL43, Serial: PHDV8201021E150MGN, 120GB / 234441648 sector(s), SATA/SSD, Sector Size: 512, Average Write Speed: 144MB/s, Average Read Speed: 440MB/s, Accessible Region: 120GB / 234441648 sector(s), DCO: Doesn't exist, HPA: Doesn't exist, Health Status: good

Self-monitoring attributes

ID	Attribute name	Flag	Value	Worst	Threshold	Type	Updated	Raw value
0x01	Raw Read Error Rate	0x000E	130	130	39	Old age	Always	60963859

1/3

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Blancco is the only data erasure company with end-to-end automation for sanitization, diagnostics, and reporting

Blancco Hardware Solutions

Secure, on-premise erasure of loose drives and drive enclosures within data centers or large IT facilities

Blancco Drive Verifier

Secure drive erasure verification for PCs, laptops, and loose drives

Blancco Mobile

Diagnostics and secure data erasure of smartphones and tablets

Blancco Removable Media Eraser

Secure data erasure of removable flash media devices stored within smartphones, tablets, network routers and cameras

Blancco Management Portal

Centralized data erasure reporting and management across your entire IT asset portfolio—on-premise or in the cloud

Blancco Drive Eraser

High speed, efficient secure data erasure of complex SSD and NVMe drives, including self-encrypting drives

Blancco Virtual Machine Eraser

Secure data erasure of complicated server and storage environments

Blancco LUN Eraser

Secure data erasure of LUNs in an active storage environment, connected to both physical and virtual machines

Blancco File Eraser

Secure data erasure of files and folders on active PCs, laptops and servers

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When is data erasure needed?

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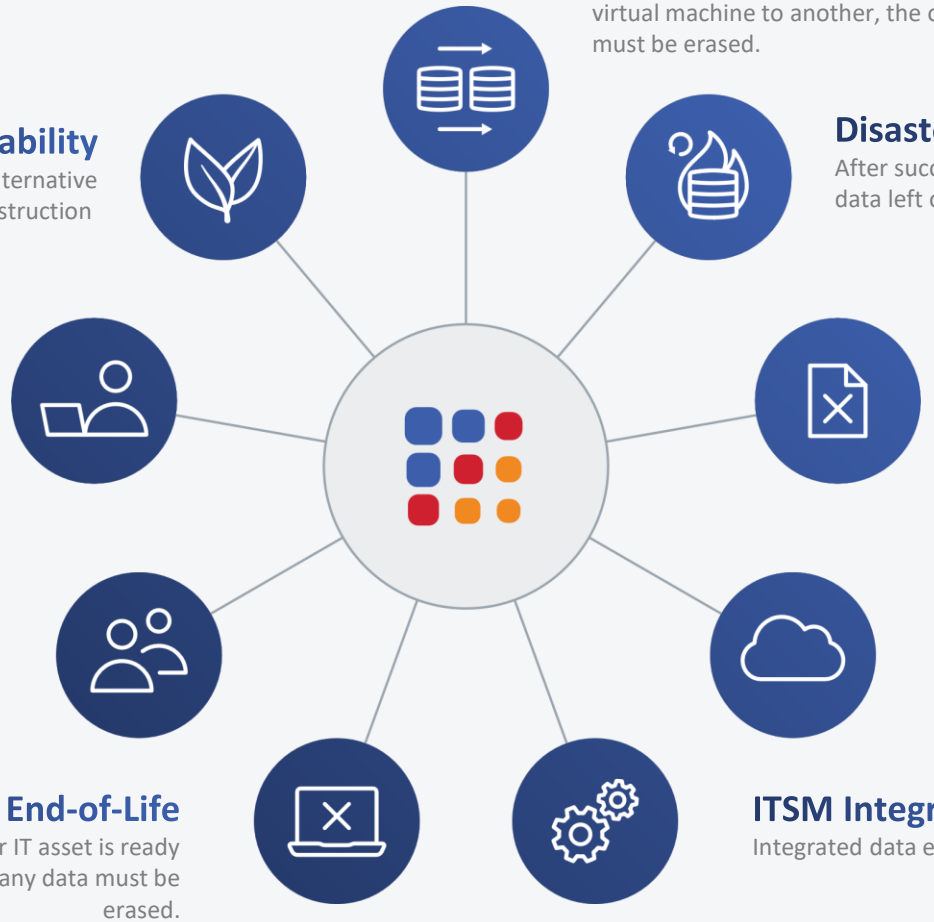

Data Migration
When data is moved from one location, server, or virtual machine to another, the original data location must be erased.

Disaster Recovery Exercises
After successfully restoring production systems, any data left on the recovery disks should be erased.

Data End-of-Life
When data is no longer needed on any storage device, policies can enforce the erasure of virtual machines, files, and folders with automated routines within your existing systems.

Cloud Management or Exit
When you are exiting a cloud service or a managed services provider is handling your data, data erasure policies must still be enforced to keep control over the data.

ITSM Integrations
Integrated data erasure solutions support ITSM policies.

Equipment End-of-Life
When a server, storage, device or other IT asset is ready to be reused, resold or discarded – any data must be erased.

Customer Demand
Including “Right to Be Forgotten” requests.

Employee Onboarding & Departures
Protect against data breaches at transition points in your hardware’s chain of custody and use.

Sustainability
Data erasure is a proven sustainable alternative to data destruction

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Blancco Drive Eraser

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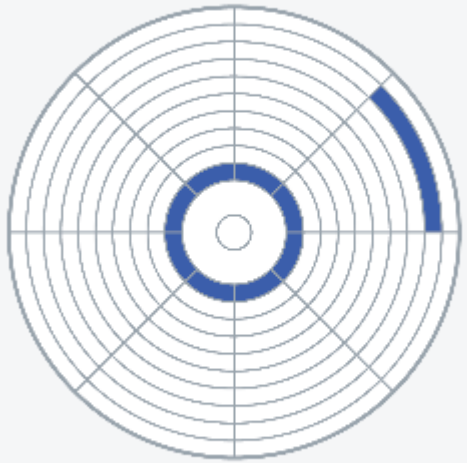
Delete / Format



- Only master boot record / table of content (book's "index") are removed
- Area on the disk is simply marked as available
- Old data (book's "pages") is still there

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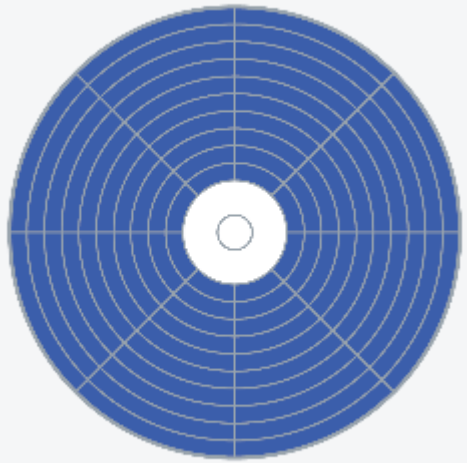

- Entire size of the disk is confirmed from the disk itself
- Every single sector of the drive is erased

4 Steps:

1. Overwrite
2. Verification
3. Report
4. Audit

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SSD Physical Destruction Challenges

Disintegration:
Disintegrate into particles that are nominally
2 millimeter edge length.

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Blancco SSD Eraser

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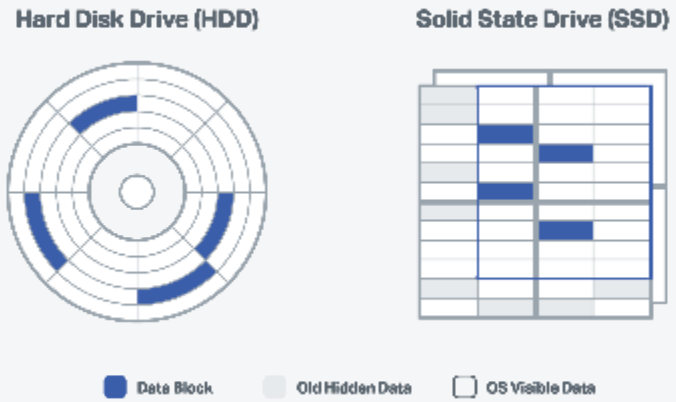

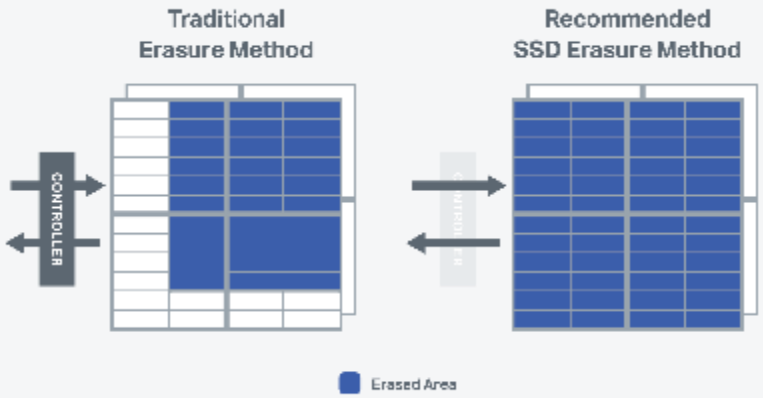

SSD Challenges

- Freeze Locks
- Wear Leveling
- Data Compression
- Unreliable Firmware Commands
- Corrupted Blocks
- Secure-Erase

Blancco Patented Solution

1. Freeze lock Removal
2. Proprietary Erasure Sequence
   i. Combines SW overwrite and FW commands
3. Erasure Validation
   i. Identifies malfunctions and preformed processes

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Blancco Certified Report

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2022-02-22 10:26:30 (+0000), BLANCCO DRIVE ERASER 7.2.0, ASUSTEK COMPUTER INC., Z170-WS, SYSTEM SERIAL NUMBER

Data Erasure Report

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Erasure Results

Disk: 1 (1-1)

Vendor: **Seagate** | Model: **ST2000NM0064-1LY174** | Serial: **Z4H016S3**
Size: **2000GB** | Bus: **SATA** | Sectors: **488378646**
HPA: **Doesn't exist** | DCO: **Doesn't exist** | Remapped Sector(s): **0**
Health Status: **good**

Remapped Sector(S) After Erasure:	**0**
Start/End Time:	**2022-02-22 08:26:21 (+0000) / 2022-02-22 09:28:55 (+0000)**
Duration:	**01:02:34**
Method:	**NIST 800-88 Purge - ATA**
Erasure Rounds:	**2 (1 overwriting, 1 firmware based erasure)**
Status:	**Erased**
Information:	**Alternative verification (absence of the previously written pattern) used. Please refer to the manual**

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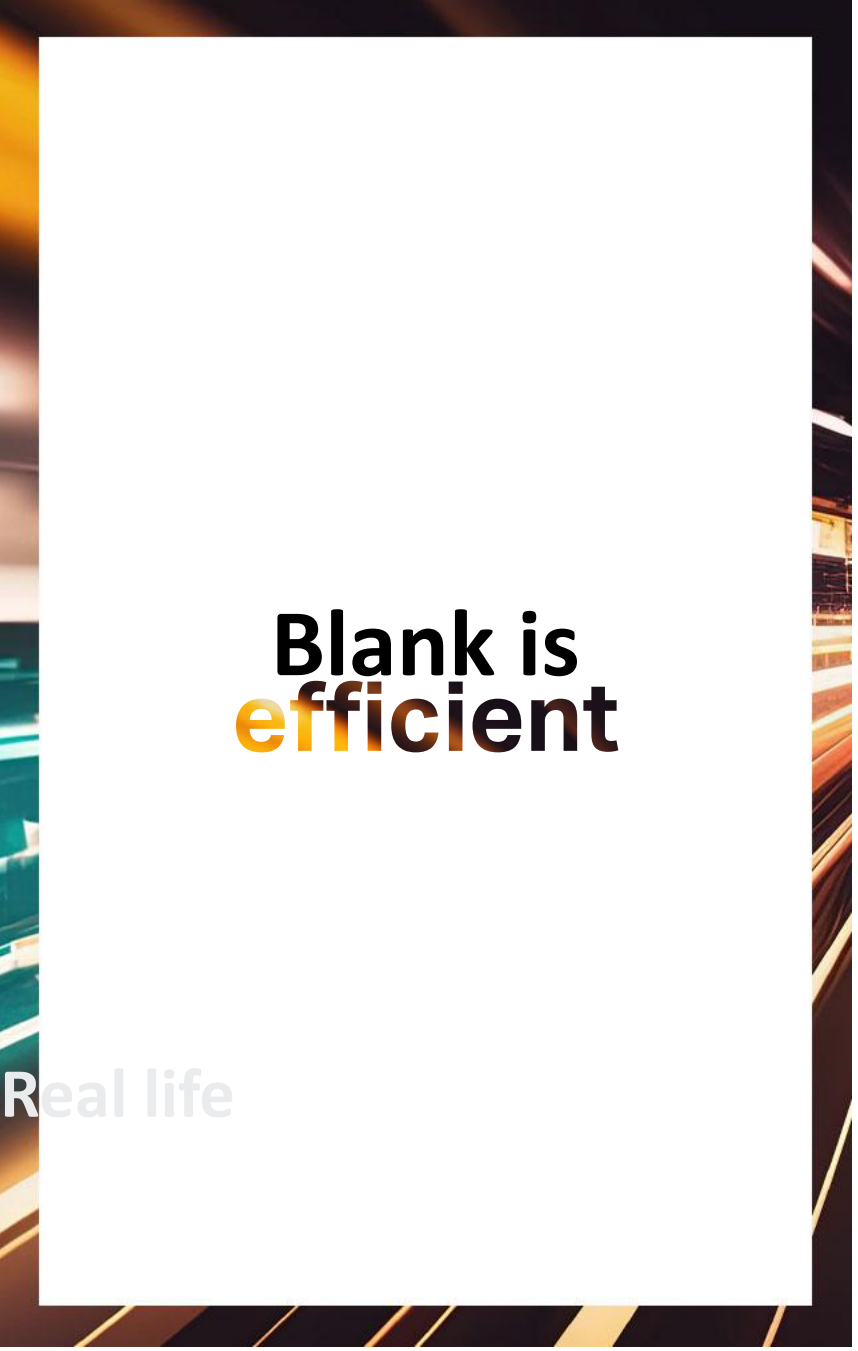

- What it can look like when processing professionally?

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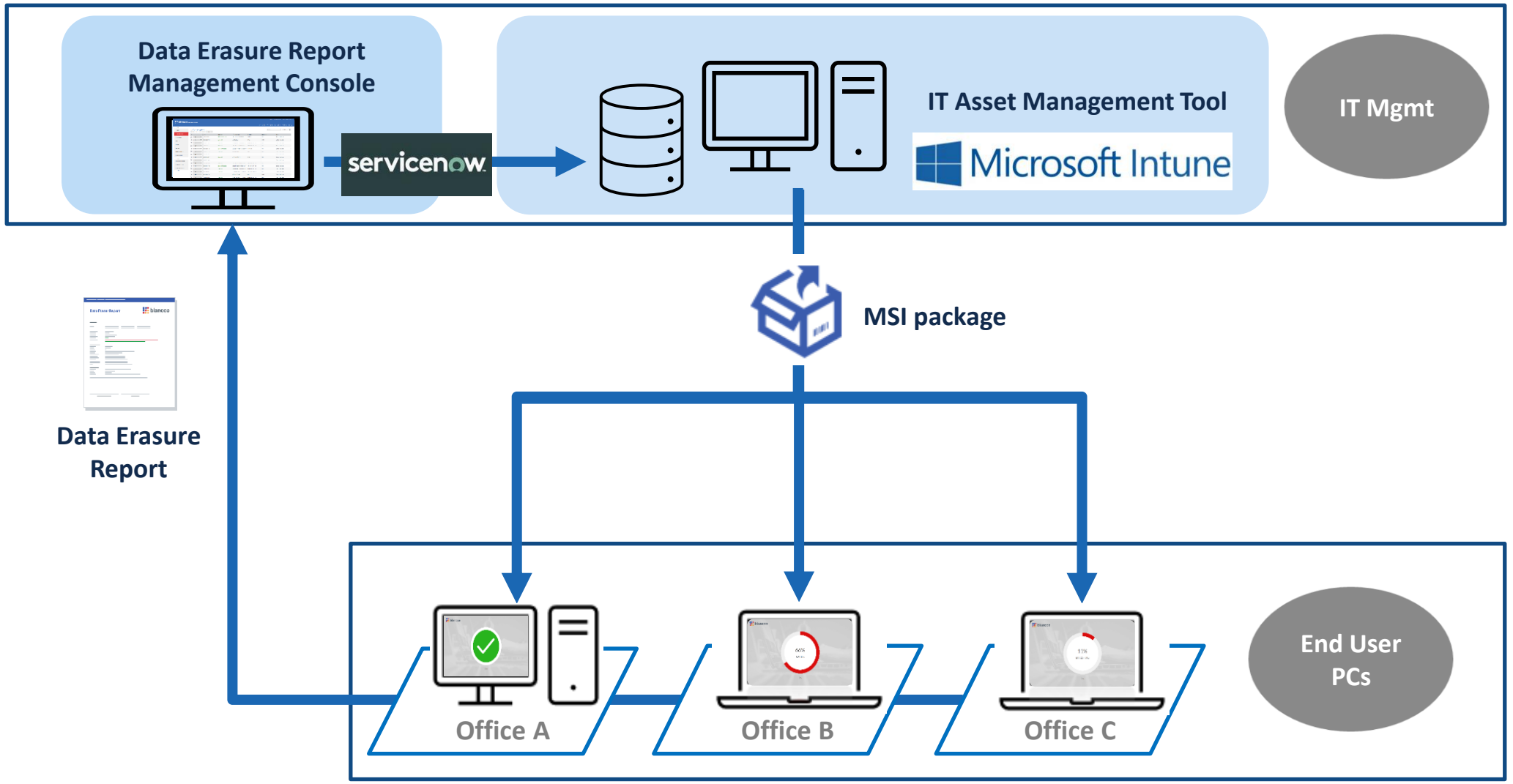
End point data erasure automation process in practice



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Blank is efficient

- 4,000 Servers decommissioned overnight
- Each server had 6x1TB SATA HDD. **Total 24,000 drives**
- Erasure time was 5-8 hours. **Total time from start (boot up) to finish (report collection): 10 hours**
- Erasure method was NIST 800-88

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Microsoft

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Thank you!

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