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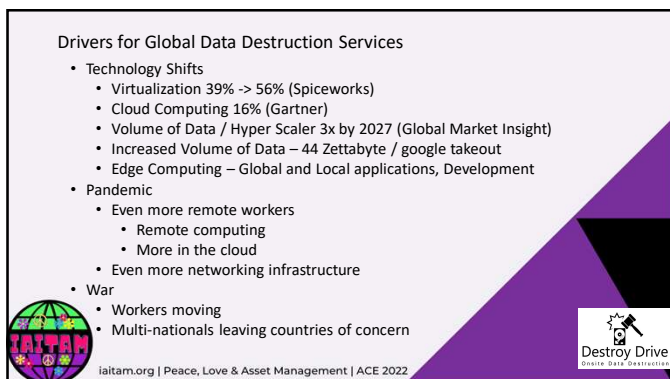
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### Global Security Threats

- Will Sutton
- Cybercrime
  - Global Size: \$3 Trillion in 2015
  - \$6 Trillion in 2021
  - \$10 Trillion by 2025
- Nation State
  - USA – Stuxnet (Iran) – Printer Virus (Iraq)
  - Persistent Threat Groups



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Destroy Drive  
Double Data Destruction

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### Persistent Threat Groups

30 Nation States – Advanced Cyber Warfare Initiatives

- Political
- Economic
- Military
- Commercial

**Hypothetical / Maybe Not So Hypothetical:**

Engineering Firm



Plans



Oil refinery



25% of World Oil Reserves  
50% of capacity



WALL ST





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Destroy Drive  
Double Data Destruction

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### International Regulations

General Data Protection Regulation (GDPR)


Created: April 14, 2016

Implementation: March 25 2018


- "Right to forget" personal identifiable information
- Fines: 4% up of Revenue/Turn Over or up to €10,000,000
- Applicable to data that may reside outside of the European Union

Evolving 100 Countries and growing with some sort of laws


Experience: US/EU multinational Companies drive level of compliance (+/-)



Source: Trivy



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Destroy Drive  
Double Data Destruction

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**Data Destruction at a Global Data Center – Ongoing Pandemic**

- I am from Florida – the rest of the US/World is different
- Understand Pandemic Protocols
  - 2<sup>nd</sup> and 3<sup>rd</sup> degree exposure (USA – Data Center Las Vegas)
  - Testing Type (PCR/Rapid), Timing, and Frequency- (similarities to international travel)
  - Impact - National Contact-Tracing Apps (India)
  - PPE requirements (Philippines):
- Documentation / Proof



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**Data Destruction at a Global Data Center**

U.S. / EU Perspective:



International Secure Information  
Govt Management Association



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**Data Destruction at a Global Data Center**

Geographic Infrastructure



Hong Kong




South Africa



Philippines



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### Data Destruction at a Global Data Center

Business Infrastructure  
Cuenca Ecuador



Kuala Lumpur



Data center = Large closet

- Limited workspace
- Availability of Power & Crash carts
- Server Lift
- Server on Rails or just bolted in
- Size of Aisles to afford even removal of NVMe (Internal Drives)

Building and Parking Lots

- Different owners
- Fees for using dock
- Ability to operate at a dock

Economic Zones - Controls around operating in those zones

Medical / Safety Authorizations




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### Data Destruction at a Global Data Center

Cultural Differences

- Concept of time is different in Greece and Italy vs Germany or Eastern Block
- Agreement and understanding / "yes" is different in different parts of world
- Ethnicity and Religion in the Middle East vs. Asia
- "Work ethic" varies greatly – its just different than the West
- Literal explanation of work
- Entrepreneurial spirit and hard workers are global – you just have to find them!



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### Technology Adoption and Availability in different markets

Oceans 11 - Las Vegas - "a pinch"

Degaussing

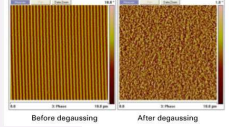
- Eliminates/neutralize magnetic field
- Form of *physical* destruction
- Renders HDD unusable / destroyed
- Does not work for SSDs

Advantages:

- Very portable
- Small in footprint
- Different throughput (under a minute to seconds)
- Well proliferation in certain markets


Disadvantage:

- HDD Destroyed
- Lacks Visual verification / some have diagnostic
- Throughput for large projects / similar to other physical
- Not all are the same / applicable – 1 Tesla / 10K Gauss




Before degaussing      After degaussing


Source: CMR8




HD-5T (up to 500 lbs)



HD-2XT



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### Technology Adoption and Availability in Different Markets

Bending / Crushing and Shearing

- Compliant
- Lower Capital expenditure
- Portable – fit in a sprinter van / airline baggage
- Fast
- Appropriate for less than 1000 drives




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### Technology Adoption and Availability in Different Markets

Wiping / Sanitization

- Good news: Ubiquitous
- Wiping isn't degaussing
- Software
- Fully embrace – cloud distribution or integrated with cloud
- Reporting: Higher accuracy
- Less operational impact – data destruction in the array or computer
- Low and High Volume
- Easy to mobilize
- A first step in physical data destruction process

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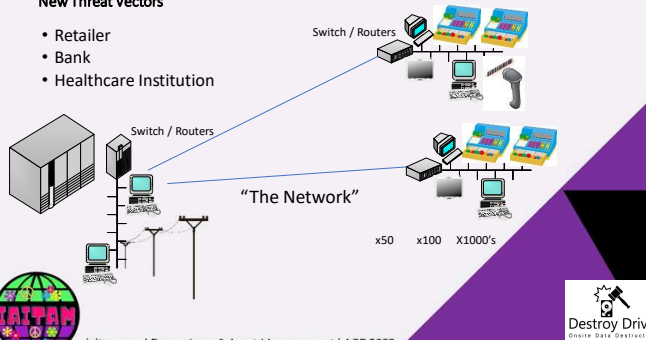

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### New Threat Vectors

- Retailer
- Bank
- Healthcare Institution

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New Threat Vectors – One of the Culprits





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Destroy Drive  
Double Data Destruction

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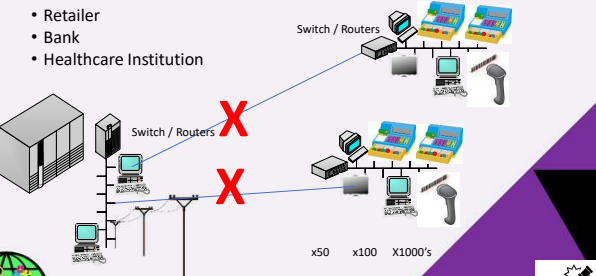
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New Threat Vectors

- Retailer
- Bank
- Healthcare Institution





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Destroy Drive  
Double Data Destruction

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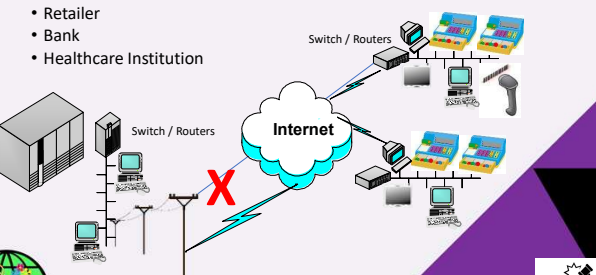
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New Threat Vectors

- Retailer
- Bank
- Healthcare Institution





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Destroy Drive  
Double Data Destruction

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### New Threat Vectors


- Easier than file recovery on formatted drive
- Cisco 2801
- AIM-VPN Module
- Just plug it in to power and the Internet
- New tools to reset





SOLUTION: Wipe the equipment before it goes to leaves for ITAD

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### Case Study

Social Media Company

Data Centers on Every Continent  
Conflict / Risky areas

- Iraq
- Venezuela
- Mexican Border

Highly sensitive customer data  
Perpetual upgrading of technology  
Small Quantity of Loose and Installed of SSD/HDD  
Physical Security of Personnel  
Proof of Destruction





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### Case Study

Best Practices

Basics (applicable to domestic / abroad):

- Serial numbers on boxes vs. actual devices
- Accuracy of government issued ID
- Actual access to equipment – locked cabinets/cages

Physical Personnel Security

- Iraq
- Reynosa Mexico

In Country / Native Language Confirmation

Training, Manuals, & Communication controls

Times Zones - 7/24 is essential – work time considerations

Paperwork/Worker documentation (Italy, Argentina)





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**Case Study**

Consumer Product Company

- Data Centers on Every Continent
- Sensitive to Data Networking Equipment being compromised
- Validation of wipe
- Decommissioning
- Packing
- Shipping
- Remarketing



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**Case Study**

Best Practices

- Cisco CNA / CNE Certifications are ubiquitous
- Adequate power and work area is necessary
- Space to pack and stage
- Adequate time to deliver proper licensing / credentials
- Operating in Russia vs Former Eastern Block vs Vietnam (North/South)

The Globe is full of talented workers and beautiful scenery



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**Case Study**

Aerospace Company

- Location in Russia
- Data Centers on Every Continent
- Dell / EMC Storage arrays
- Validation of wipe
- Decommissioning
- Packing
- Shipping



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## Case Study

### Best Practices

- Operating in Russia
- Certus wiping software
- Adequate power and work area is necessary
- Space to pack and stage
- Adequate time to deliver proper licensing / credentials



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## Operational Considerations and Guidelines

### Considerations

Before ITAD, is it acceptable transboundary movement of Assets with Data? Or perform in country?

Transboundary movement of Assets – Country of Origin, Ownership, and Customs & Taxes

Free Trade Zones within a country

In country resources vs. Time Zones

### Guidelines

Engage your local resources with our local technical resources for tactical project coordination= speed

Language - Standard Operating Procedure / Tech Guides / Training



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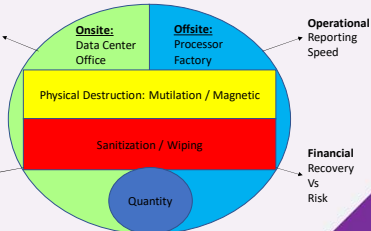
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## Operational Considerations and Guidelines

Relative Security  
"Risk"  
"Adversary"

Compliance  
Internal  
Regulatory



Operational  
Reporting  
Speed

Financial  
Recovery  
Vs  
Risk

Check Lists - Available:  
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[brian.tennant@destroydrive.com](mailto:brian.tennant@destroydrive.com)



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### Destroy Drive

Destroy Drive provides compliant, on-site data destruction services. Working in both the data center and office environments, thousands of drives can be securely sanitized daily.

Our mission is to provide nimble, secure, cost effective, and on-site data destruction services around the world.

Destroy Drive aspires to be the first choice and best option to provide compliant and secure on-site data destruction (DD) services around the world.



Dag Adamson – President  
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dag.adamson@destroydrive.com



Destroy Drive  
On-site Data Destruction

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