You Must Secure Devices as Well as Data

Session 104-A

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Secure Products – Beyond Data Protection
Coughlin Associates: “Self-Encrypting Drive Market and Technology Report”, 2015:

“By 2017 we project that 100% of all HDDs shipped will be SED capable, ….

By 2014 almost all SSDs were SED capable and by 2015 they all have this capability.”
But… Need Security Everywhere

Coughlin Associates: “Self-Encrypting Drive Market and Technology Report”, 2015:

“By 2018 about 11% of all HDDs shipping units will shift to SED enabled or promoted products, although actual SSD SED feature implementation in 2018 is 100% in about 236 M SSDs, the projected actual SSDs from that year intended for security and data protection purposes is estimated at less than 24 M units.”
What is Security Moving Forward?

Security in All Products

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Product Security/Cybersecurity

- Security Foundation
- Secure Downloads & Diagnostics
- Secure Drive Security
- Cryptographically-Signed Firmware, Secure Boot and Protected Download/Diagnostic Ports
- Instant Secure Erase
- Quick and Simple Crypto-Erase and Sanitize Features
- TCG-Compliant Security
- Full Deployment with Key Management Software
- Self-Encrypting Drives
- Self-Encrypting FIPS Drives
- Government-Grade Security
- Data-at-Rest Protection
- Easy Disposal and Repurposing
- FIPS 140-2 Certified

- Customer Needs
- Seagate Secure Solutions

- Product Development
- Increasing Assurance (Authentic & Unaltered)
- Manufacturing
- Supply Chain

Product Security/Cybersecurity

- Infrastructure
What to Do & How to Talk About It?

Policy, Standards, Certifications

- Open Trusted Technology Provider™ Standard (O-TTPS) & Accreditation
- FDE cPP Certification
- ePP - Authorization Acquisition
- cPP – Encryption Engine
- FIPS 140 Product Validation
- FIPS XXX Compliance & Certifications
- 800-XX Compliance & Certifications
- Cybersecurity Framework
- ISO/IEC - 27040
- ISO/IEC - 27001
- Security Protocol & Capabilities
- Product Certification - Whitelist

Identify | Protect | Detect | Respond | Recover
Calls To Action

1. Good Security In All Products


3. Transparency & Assurance in Policy, Standards, and Certifications
Thank You! Questions?

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Monty Forehand is The Director of Security Engineering at Seagate Technology, leading security products engineering, standards, certifications, and ecosystem development worldwide across product lines. He is a pioneer in the secure storage industry leading the architecture & development of the world’s first fully integrated Self Encrypting Drive, First-ever FIPS-140 validated SED, and has led the industry to numerous enabling technologies and standards globally. Monty is a frequent storage security speaker and industry resource globally. He holds 17 patents in the areas of Storage Architecture, Storage Virtualization, and Storage Security.