

A Day in the Life in the FAO Telephone calls from parents Specific information requested via email Student requesting to speak with a financial aid counselor with a friend or non-custodial parent Request from a FBI agent Request for ISIR data from another department on campus Receipt of PII via email and fax

Protecting Your Stud	ents' Data	
Why Target a School?		
Top Five Data Security Issues		
ED Guidance and Recent Se	curity Training	
Best Practices		
Security Tools and Resources	i	
Questions		

Schools are a Valuable and Can be an Easy Target • Stores a vast amount of long-term data • IT challenges • Large number of records • International connections • Student access to internal resources • New technology

Top 5 Data Security Practices
Security Managing Forensic Breach Third-Party Awareness Passwords Logging Response Review
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Security Awareness

- Combination of knowledge and attitude
- Applies to everyone
- There is no such thing as common sense without a base common knowledge
- Security programs fail, because they assume there is the common knowledge

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Multi-Hered Approach to Delivery	
Presentations Posters Topical articles / current events On-the-job and role-based training Presentations SECULIVE Topical articles / current events Top	
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Password Management Characteristics	
LengthComplexityAgeNon-dictionary (any dictionary)	
3Yx3FnmQVt%e2	
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Dasaphrasas	
Passphrases	
 Easier to remember Satisfies complex rules easily Major OS and applications supports passphrase Passphrases are next to impossible to crack 	

Passphrasesare#easier2remember

Forensic Accounting
If it wasn't written down,
it didn't happen
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Forensic Accounting
When sensitive information is accessed, either physically or electronically, you should be able to positively identify:
Who – individual person or user id
 What – information accessed Where the event occurred, or what systems the information was
 accessed on and from When – always time stamps and synchronized on your systems
Do not log actual PII, sensitive data, passwords, account information, etc.
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Protection of Log Information
Protection of Log Information
Separate from systems that generate the logs
Segregation of duties
Logging failure notification
Log reductionTamper evidence
issupply evidence
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- Disqus data breach from 2012 with info dating back to 2007
- Yahoo (update) update from 1B impacted users to 3B
- Hyatt Hotels unauthorized access to payment info, 41 properties, 11 countries
- Forever 21 Point-of-sale devices compromised, unsure of reach
- Maine Foster Care– exposed PII, unsure of reach or use
- Uber 57M users and drivers emails and phone numbers
- Imgur 1.7M user codes and passwords
- ullet TIO Networks 1.6M customers, bank accounts, SSNs, payment info
- eBay usernames, last names and purchase history of sensitive products
- Alteryx 120M American households personal info

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Breach Response

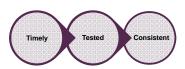
Security professionals, to be successful, have to defend billions upon billions of attacks occurring 24 hours per day, 7 days per week, 365 days per year.

Successful attackers only need to be right **once**.

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Breach Response Incident Plan

- Technology owners, Business Process owners, Executive Management, Human Resources, Legal Counsel, and Communications
- Notifications to Data Owners, Local, State, and Federal government, Media relations, Law Enforcement



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Data Handling Compliance

- NIST SP 800-53 required by FISMA
- NIST SP 800-171 required for all secondary ed financial aid offices
- Gramm-Leach Bliley Act record keeping for financial process
- FERPA non-PII education records
- PCI payment card info
- **HIPAA** health info

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Third-Party Review

- Required by most controls
- Provides independent accounting of the Security Program
- Accountability to Senior Management

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A Consistently Hot Topic ED Guidance Publications ED Webinar - Post Secondary Institution Data Security Requirements and FSA Data Privacy/Sharing NASFAA Webinar - Best Practices in Applicant Data and Authentication Policies and Procedures FSA and Professional Association Conference Sessions Recent Breaches

Security Tools & Resources	
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Security Policies and Procedures Poll	
Do you have written data security policies and procedures?	
Do you follow your written data security documentation consistently in your office?	
Do you have a written authentication protocol?	
Are data security practices consistent across campus?	
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Best Practices in the School	-
Establish and consistently follow written policies and procedures on:	
 Authentication requirements for in-person, email and telephone inquiries Management of both paper and electronic documentation 	
Training and periodic reminders Include in employee performance program	
sidde in employee periormance program	
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Building with secured floors and cameras	
Badge policy	74.14
Employee background checks	FES protects the
Forensic audit trail	confidentiality,
Laptop security and clean desk policy	integrity and availability of
Data security training and test requirements	student data.
FISMA ready	
TECH LOCK Certified: Service Provider	
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FISMA Ready Importance

- NIST SP 800-53 rev. 4 defines the controls necessary for Federal Information Security Management Act (FISMA) compliance
- FISMA ready is the highest classification possible without having a federal contract

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FISMA Ready Importance

What does this mean for schools?

These controls are the comprehensive management, operational, and technical safeguards (or countermeasures) prescribed for an information system to protect the confidentiality, integrity, and availability of the system and its information.

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- NIST SP 800-53 r4 -http://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-53r4.pdf
- NIST SP 800-171 http://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-171.pdf
- GLBA https://www.gpo.gov/fdsys/pkg/STATUTE-113/pdf/STATUTE-113-pg1338.pdf
- FERPA https://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html
- PCI-DSS -https://www.pcisecuritystandards.org/document library?category=pcidss &document=pci dss
- HIPAA https://www.hhs.gov/hipaa/for-professionals/security/laws-regulations/index.html

Security Resources

- §668.46 Institutional security policies and crime statistics
- Electronic Announcement 9/5/2017
- GEN 15-18
- GEN 16-12
- Protecting Student Privacy
- Federal Trade Commission Security Videos
- FSA Assessments

Summary



Recommend an inclusive security awareness program



Ensure passwords are long and complex, but memorable



Record and protect activity logging



Create a breach plan



Require recent audits, compliance certifications and security standards from your current or potential third-party servicer

Questions	
Questions	
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