

**MINNESOTA STATE COLLEGES AND UNIVERSITIES
BOARD OF TRUSTEES**

Agenda Item Summary Sheet

Committee: Technology Committee

Date of Meeting: March 16, 2011

Agenda Item: Information Security Program Review

- Proposed Policy Change Approvals Required by Policy Other Approvals Monitoring
- Information

Cite policy requirement, or explain why item is on the Board agenda:

The Technology Committee members agreed in September to hold presentations of vignettes; this presentation will focus on security. Bev Schuft, Director of Information Security will present a review of the Information Security Program.

Scheduled Presenter(s):

Bev Schuft, Director of Information Security

Outline of Key Points/Policy Issues:

Background Information:

Additional presentations from the faculty, student and administrator perspectives will take place at future meetings.

**BOARD OF TRUSTEES
MINNESOTA STATE COLLEGES AND UNIVERSITIES**

INFORMATION ITEM
Technology: Information Security Program Review

BACKGROUND:

Bev Schuft, Director of Information Security will present a review of the Information Security Program.

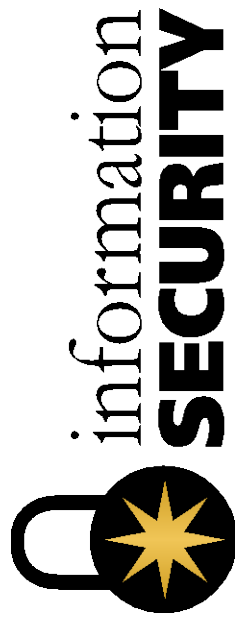


Information Security Program

Board of Trustees Technology Committee Presentation

Presenter: Bev Schuft

Date: March 16, 2011





Top-Ten IT Issues - Educause

2010

Funding IT

Admin/ERP

Security

2009

Funding IT

Admin/ERP

Security

2008

Security

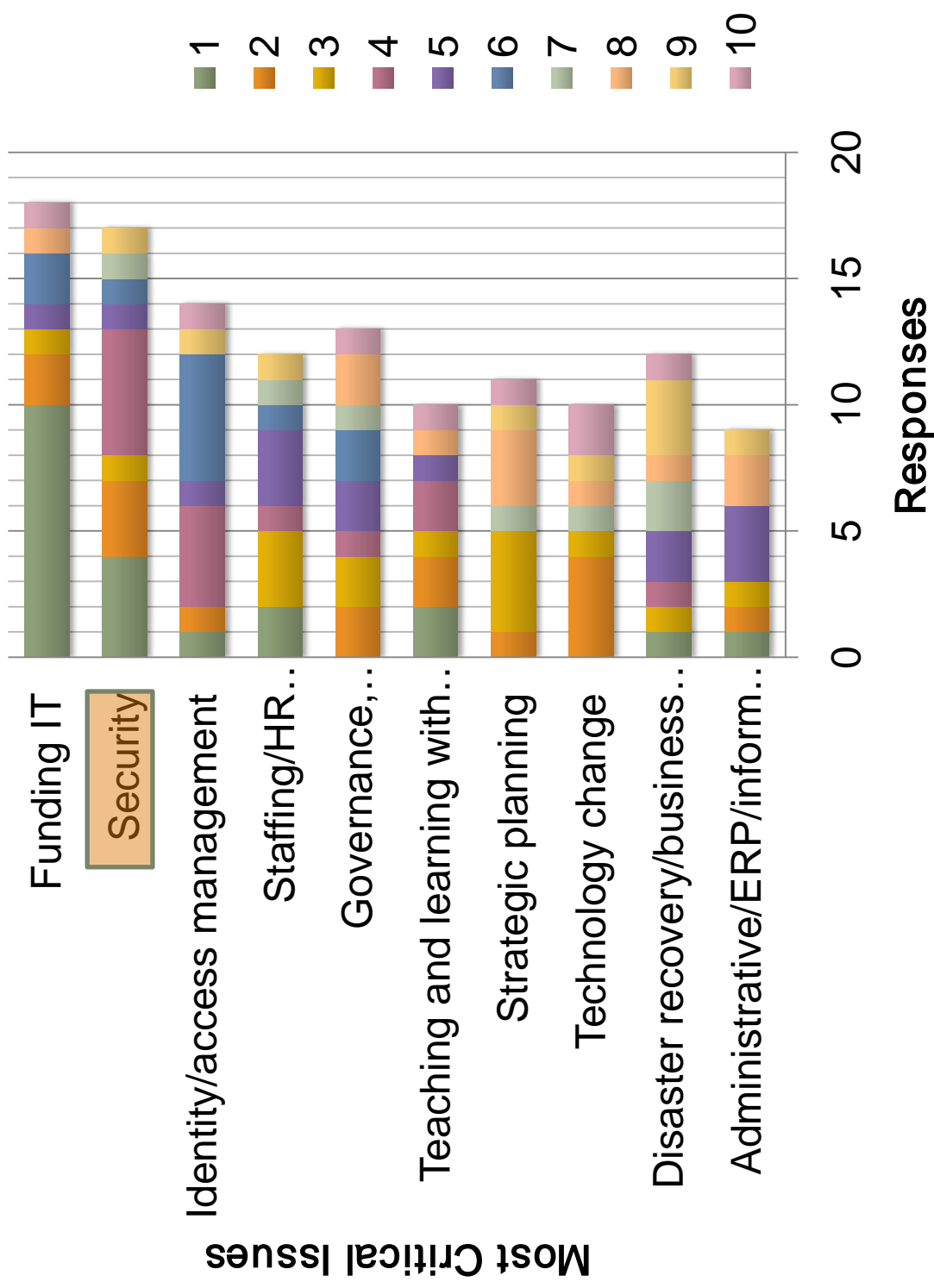
Admin/ERP

Funding IT

Information Security has been in the Educause top 3 strategic issues for the past 7 years



System CIO's Top Issues: October 2010



In order of ranked response



Cybercrime: A Recession-Proof Growth Industry

- 95,000 pieces of malware (malicious software) analyzed by Sophos Labs every day in 2010 - nearly doubling the number tracked in 2009

Cybercrime Products – 2010 going rates

- Credit Card Details – From \$2 - \$90
- Bank Credentials – From \$80 - \$700 (with guaranteed balance)
- Bank Transfers and Cashing Checks – From \$10 – 40% of the total
- Online Stores & Pay Platforms – From \$80 - \$1500 with guaranteed balance

Cybercrime: Identity Theft





Information Security Program

Information Security Program

- To protect information resources against unauthorized use, disclosure, modification, damage or loss
 - Policies, procedures & guidelines
 - Risk analysis & assessment
 - Secure development & procurement practices
 - Incident response





Information Security Assessment

- A Team of security specialists completed a security assessment for every campus to:
 - Provide a security benchmark
 - Identified risks, priorities and remediation strategies
 - Increase security awareness on campuses
- Aggregated assessment results for system wide security initiatives

Information Security Training for Campus Technical Staff

17 Security Courses

- Information Security Essentials
- Desktop Administration
- Network Administration
- Server Administration
- Security Management
- Encryption
- Programming





Board Policy 5.23 Security and Privacy of Info Resources

9 Guidelines

- Passwords
- Data Sanitization
- Patch Management
- Anti-malware
- Data Backup
- Incident Response
- Encryption for Mobile Computing
- Vulnerability Scanning
- PCI Technical Requirements



Vulnerability Management

- Regularly check every network device for actual or potential security problems
 - 30,000 devices scanned at least quarterly
 - 9,000 “visible” from Internet also scanned monthly
 - Problems found are prioritized for remediation
 - 30% reduction of Internet-visible vulnerabilities in past 3 months
- Cost: \$3.55/device scanned/year



Patch Management

- To fix the unpatched systems identified using vulnerability tools
 - Established a contract for licenses at greatly reduced prices
 - \$2/license/device
- Email response we received by one campus after purchasing and using the patch management software

“SWEET”



Web Application Security

- 75% of attacks are directed at applications
- Implications for System Applications: moving toward more web accessible applications
 - Web applications were evaluated
 - Secure coding classes held for developers
 - Security testing tool provided
 - Software Security Task Force established in enterprise developer group

Gartner Report



Risk Assessment

- Proactive approach to understand, analyze, and measure information risk
 - provides foundation for quantifiable information risk management
- Successfully conducted first assessment of an application
 - risk mitigation plan will improve application & reduce risk to acceptable levels

Payment Card Industry Data Security Standards (PCI DSS)

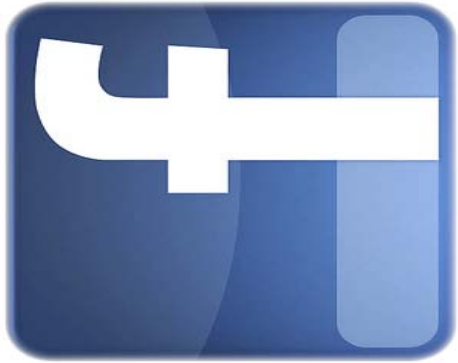
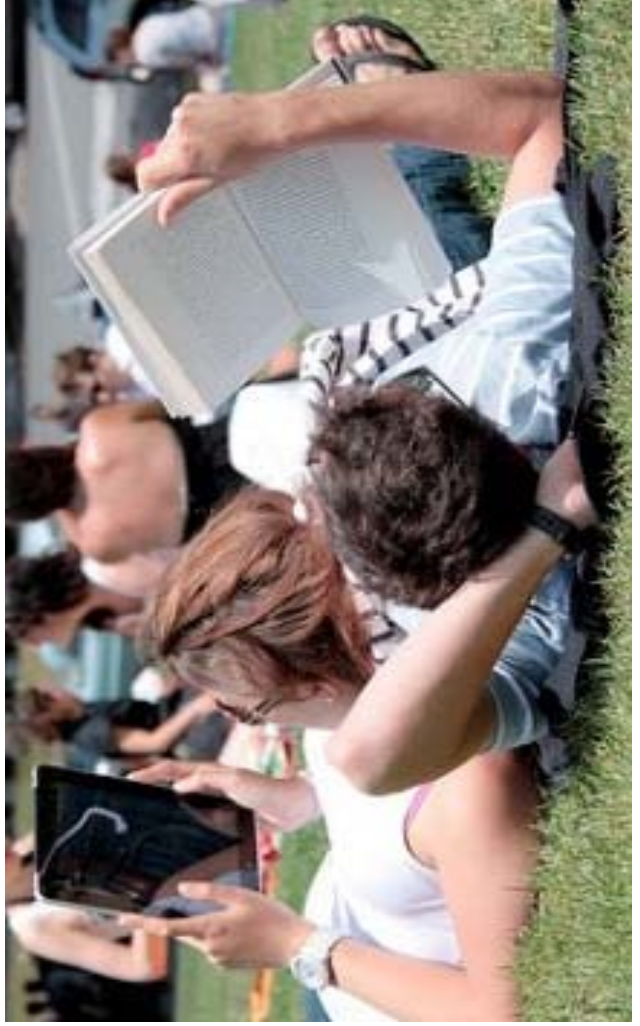
- Provides a set of requirements for securing cardholder data that is:
 - Stored
 - Processed
 - Transmitted
- Compliance is a continuous journey – Annual self assessment questionnaire and possible quarterly network scans are required
 - Both technical and administrative areas need to be addressed





Trends and Challenges

Twitter



A Dime's Worth of Data







Challenges

- Changing work/study environment
 - Growth in mobile devices & applications
 - End users are bringing in their own technology devices
 - Growing use of social media
- Changing nature of threats
 - Hacking is a profitable industry
 - Significant growth in malware
 - Application vulnerabilities new target of opportunity
- Growing compliance requirements
 - PCI DSS
- Balance between convenience and security