Information Security Advisory Council

Thursday, March 3rd 2014
Student Union, Calloway Peak (room 137 A)

Appalachian State University

Meeting Agenda

1. Welcome from Office of CIO + Governance Overview.	**2:00 - 2:05**
2. Council Member Introductions.	**2:05 - 2:10**
3. Presentation - Information Security Overview.	**2:20 - 2:50**
4. Planning - Next Steps + Logistics.	**2:50 - 3:00**

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Welcome From The Office of CIO

Thank you for lending your support and assistance!

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Welcome From The Office of CIO

Transparency

Engagement

Broad Expertise

Shared Ownership

Information Security Overview

Information Is A Mission Critical Asset!

We all depend on information that is:

- Accessible
- Accurate / Timely
- Cost Effective

“The diffusion of technology and commodification of information transforms the role of information into a resource equal in importance to land, labor, and capital.” - Peter Drucker

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Information Security Overview

Scope of Personal Information

Over 412,000 individuals have entrusted their personal information to AppState.

Approximately about the same # of individuals living in Raleigh.

(423,179 in 2012 Census)

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Information Security Overview

“A Tale of Two HigherEd Data Breaches”

February 25, 2014 by Megan O'Neil

Comment (0)

Data Breach at Indiana U. Exposes Information on 146,000 Students

Data Breach At University Of Maryland Exposes 309,000 Records

by EYDER PERALTA

Average Recovery Cost $111 per individual impacted.

Ponemon Institute

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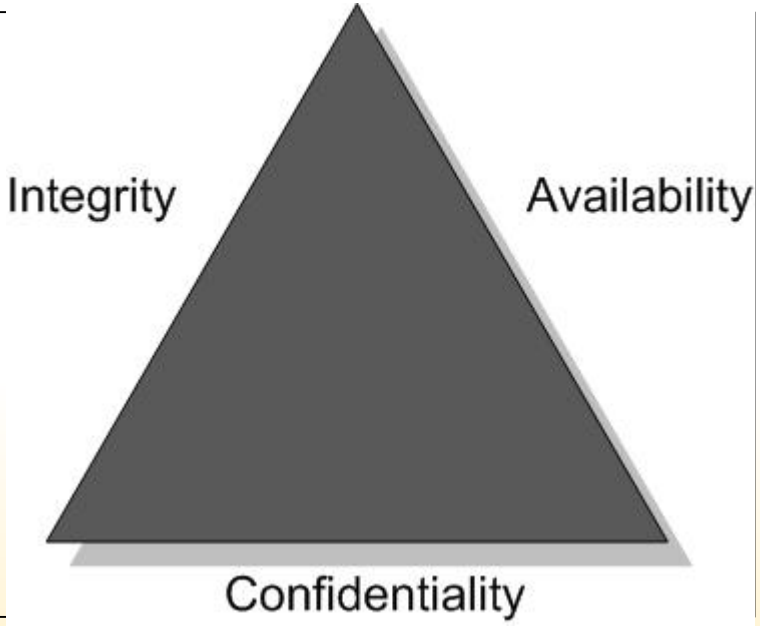
Information Security Overview

ASU Information Is Subject To Risks

Confidentiality Risks - *Hacking, Accidental Data Exposures,*

Availability Risks - *Natural Disasters, System Failures,*

Integrity Risks - *Coding Errors, Data Input, Corrupted Backups*



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Information Security Overview

Info. Security Is About Managing Risk

Important Questions

What are biggests risks to University?

What about our community?

What actions can we undertake help achieve a balance of risk and opportunity?

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Information Security Overview

Some Risks Feel Very Familiar

- **Data Loss**

- **Equipment Theft / Loss**

- **“Recreational” Hacking**

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Information Security Overview

Some Risks Still Feel Relatively New

- **Mobile Device Threats**

- **Hacktivism**

- **Organized CyberCrime**

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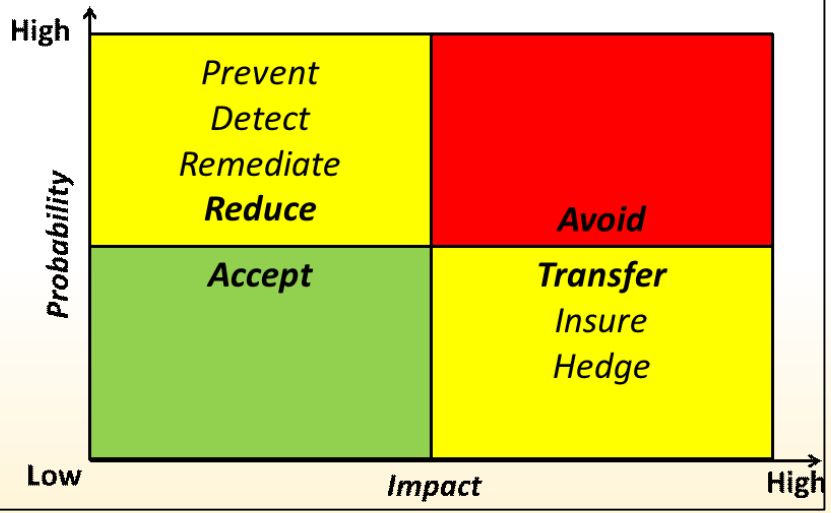
Information Security Overview

Risks are everywhere

but

we don't have to address every risk.

Assessing Risks



Information Security Overview

We Are Subject Compliance Regulations

The management of our data and associated practices is subject to compliance requirements.

Higher Education often faces greater number regulations than commercial organizations.

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Information Security Overview

Personal vs Univ. Information Security Concerns

We want to keep our personal information safe.

We want to personally avoid being victims to disruptive, damaging, and costly online fraud attempts attacks.

We individually each want quick and reliable access to relevant and trustworthy information.

Most of us want to be law abiding citizens in cyberspace.

Individual Concerns

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Information Security Overview

Personal vs Univ. Information Security Concerns

We want to keep our faculty, staff, and student information safe.

We want to keep the University community from being subjected to disruptive, damaging, or costly attacks.

We want to consistently provide quick and reliable access to trustworthy information.

We want to help ensure the University honors legal, and contractual, ethical obligations.

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2. Information Security Overview

We Face Unique Security Challenges!

Shared Values	**Shared Needs**
Academic Freedom	Data Protection Standards
Foster Experimentation	Ability To Detect/Prevent Attacks
Openness / Free Flow Of Information	Meet Records Requests
Reasonable Expectation of Privacy	

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Information Security Overview

Information Security Is An Organizational Issue

And A Shared Responsibility.

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Information Security Overview

UNC Information Security Formalization

2008 - University of North Carolina Information Technology Security Council (ITSC) formed.

12/ 2011 - ITSC recommends the adoption of **ISO 27002** as the common security framework for the University of North Carolina system.

01/ 2012 - The UNC CIO council accepted the recommendation from the UNC ITSC to use **ISO 27002**.

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UNC Information Security Formalization

*** 03/ 2012** - Chancellors of all UNC system institutions submitted letters to UNC-GA indicating the adoption of **ISO 27002** as the official security framework for their campus.

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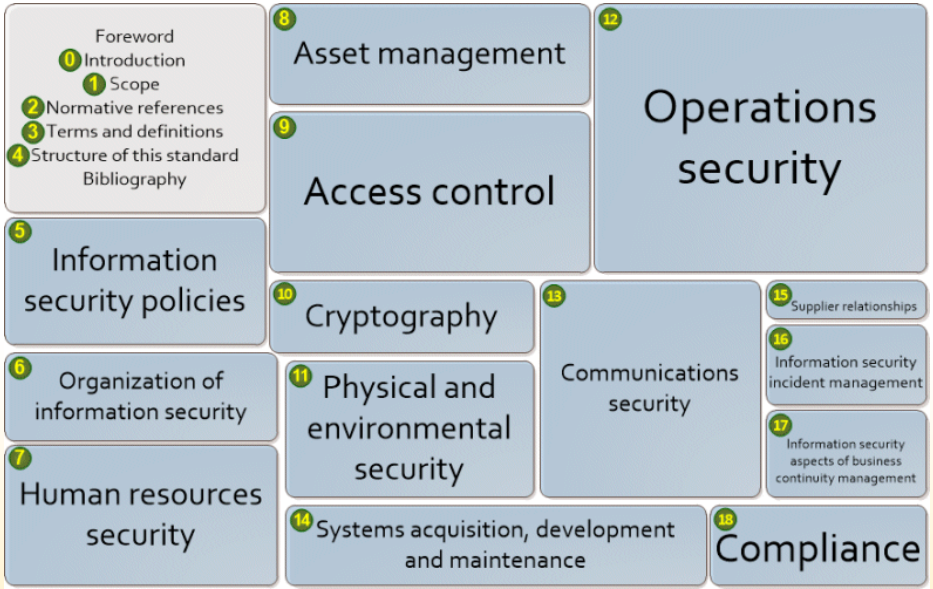
ISO/IEC 27002:2013

Best Practices Recommendations



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Information Security Overview

ISO/IEC 27002:2013

Collection of 114 Controls

Administrative Controls - Policies, Procedures, Guidelines, Standards of Practice.

Technical Controls - Firewalls, Antivirus, Intrusion Detection, VPN.

Physical Controls - Door Locks, Card Swipes, Security Cameras.

Information Security Overview

ISO/IEC 27002:2013

Structure Of The Standard

- Security Policy
- Organization of Information Security
- Human Resources Security
- Asset Management
- Access Control
- Cryptography
- Physical And Environmental Security
- Communications Security
- Information Systems Acquisition, Development, Maintenance
- Supplier Relationships
- Incident management
- Aspects of Business Continuity
- Compliance

Information Security Overview

Two Important Things For Us To Consider.

Security Is a Process
Not A Destination.

ISAC Role and Charge

Our Council Web-Site

http://isac.cio.appstate.edu/

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ISAC Charge (Distilled)

Provide advisement, review, and endorsement of Information Security Plan including relevant **policies, strategic initiatives, services**.

Ensure that this plan is **aligned** to the needs of the Univ community:

Focused on **education and awareness** opportunities

Driven to achieve reasonable, cost-effective, and holistic **management of risks** related to University information resources.

ISAC Scope of Authority

- Collaborative review, revision, and endorsement of the University Information Security Plan.
- Collaborative review, revision, and endorsement of University Information Security Policies.
- Identification of campus wide and role-specific security awareness and training needs.
- Review and advisement concerning information security issues, trends, and opportunities.
- Review and advisement concerning information security program service improvements.
- Authority to establish committees and workgroups to research or focus on specific areas.
- Publication of all non-confidential council work, project information and meeting minutes to council web site.

ISAC Deliverables

The primary deliverables of the Information Security Advisory Council work includes the following:

- A collaboratively developed **Information Security Plan** that defines strategic initiatives, objectives, and areas for continual improvement.
- A collaboratively developed **Security Awareness and Training Plan** that addresses key issues, needs, and concerns.
- A collaboratively developed set of proposed and/or ratified **Information Security Policies** that address the important information security needs of Appalachian State University.

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Information Security Plan

Annual Planning Cycle

In alignment with University mission and needs:

What Are Our Strategic Initiatives?

What objectives and measurements do we make?

How can we focus on continual improvement?

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Where should we spend our effort / resources?

Security Awareness Plan

Annual Planning Cycle

How can we help ensure that faculty and staff are aware of relevant security policies and standards?

What topics/themes are most important for keeping our community safe online?

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Information Security Policies

Annual Review

Are there any new policies that we need to establish

to ensure the effective management of Information Security

Risks?

Are there revisions to policies that are needed based on

changes?

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We Don’t Have To Reinvent The Wheel!

EDUCAUSE

INTERNET2

HIGHER EDUCATION INFORMATION SECURITY COUNCIL

ISACA®

Trust in, and value from, information systems

UNC ITSC

SANS

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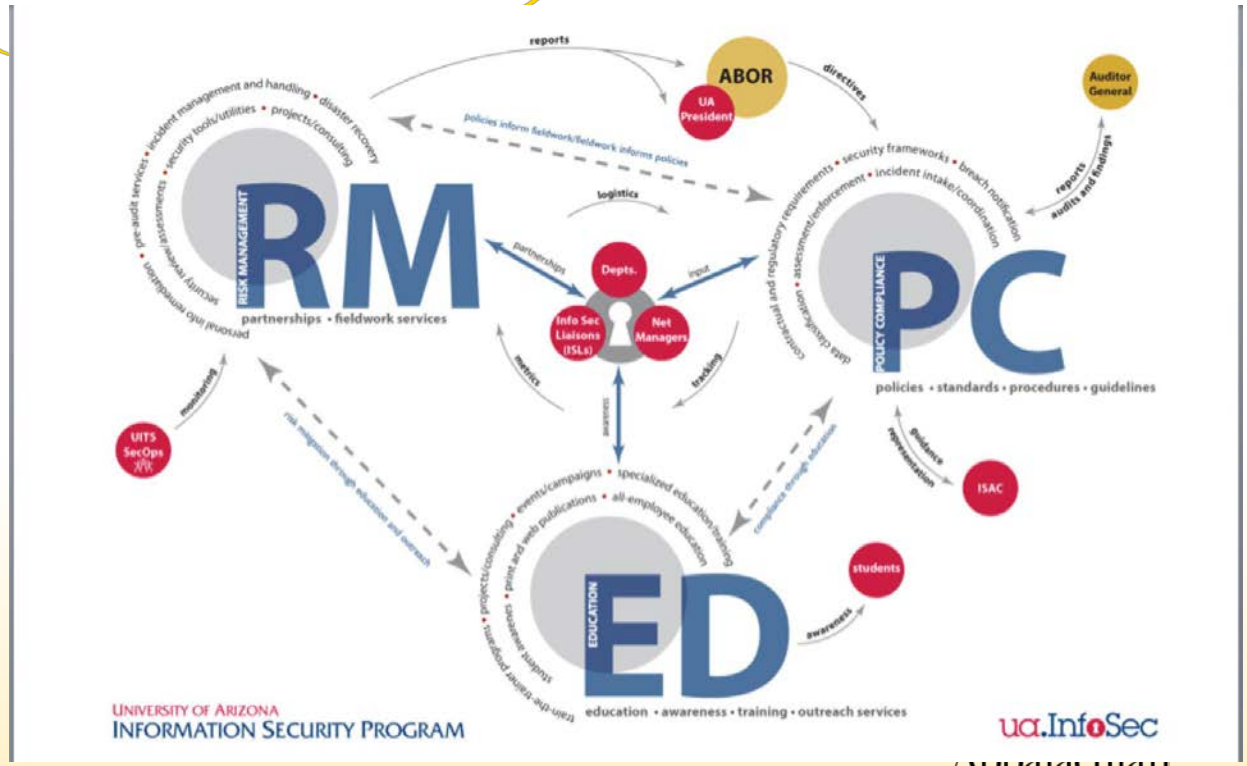

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ITS-OIS Status Report

ITS - Office of Information Security

CISO - Jim Webb

Security Analyst - Oscar Knight

Security Analyst - Kevin Wilcox

Web: http://security.appstate.edu

Phone: ext 6277

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ITS-OIS Status Report

ITS - Office of Information Security

Our Services

Awareness Training

Incident Management and Handling

Projects / Consulting

Policy Development

Risk and Compliance

Security Review

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ITS-OIS Status Report

ITS - Office of Information Security

Current Major Projects and Partnerships

Secure CC Transaction Solution.

Student Security Awareness Initiative.

Data Protection Toolkit

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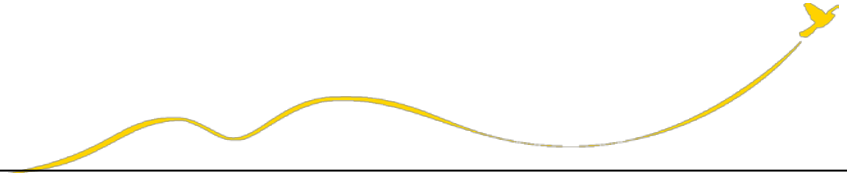

Thoughts? / Comments?/ Questions?

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Next Steps

How Often Should We Meet?

Monthly?

Next Meeting Agenda?

Report on Our ISO 27002 Status?

Addre

Security Policy Group	Security Awareness Group	Incident Response Group

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