# Meeting Agenda

1. Welcome from Office of CIO + Governance Overview.  
   
   2:00 - 2:05

2. Council Member Introductions.  
   
   2:05 - 2:10

   
   2:20 - 2:50

   
   2:50 - 3:00
Welcome From The Office of CIO

Thank you for lending your support and assistance!
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 commoditication of information transforms the role of information into a resource equal in importance to land, labor, and capital.” - Peter Drucker
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)
Information Security Overview

“A Tale of Two HigherEd Data Breaches”

February 25, 2014 by Megan O’Neil

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

Data Breach At University Of Maryland Exposes 309,000 Records

by EYDER PERALTA

Ponemon Institute

Average Recovery Cost $111 per individual impacted.
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
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?
Some Risks Feel Very Familiar

- Data Loss
- Equipment Theft / Loss
- “Recreational” Hacking
Information Security Overview

Some Risks Still Feel Relatively New

- Mobile Device Threats
- Hacktivism
- Organized CyberCrime

THE GLOBAL PRICE TAG OF CONSUMER CYBERCRIME

$113 BN

ENOUGH TO HOST THE 2012 LONDON OLYMPICS NEARLY 10 TIMES OVER

10% OF DIRECT FINANCIAL COSTS ARE A RESULT OF FRAUD, REPAIRS, THEFT AND LOSS

USD $298

AVERAGE COST PER VICTIM
REPRESENTS A 50 PERCENT INCREASE OVER 2012
Information Security Overview

Risks are everywhere

but

we don’t have to address every risk.
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.
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.
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.
2. Information Security Overview

We Face Unique Security Challenges!

**Shared Values**
- Academic Freedom
- Foster Experimentation
- Openness / Free Flow Of Information
- Reasonable Expectation of Privacy

**Shared Needs**
- Data Protection Standards
- Ability To Detect/Prevent Attacks
- Meet Records Requests

Appalachian State University
Information Security Overview

Information Security Is An Organizational Issue
And A Shared Responsibility.

Cyber Security is everyone’s responsibility...
Protect your information at home and at work!
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**.
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.
Information Security Overview

ISO/IEC 27002:2013

Best Practices Recommendations
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

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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/
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.
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.
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?

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?
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?
We Don’t Have To Reinvent The Wheel!

UNC ITSC

EDUCAUSE

INTERNET®

HIGHER EDUCATION INFORMATION SECURITY COUNCIL

ISACA®

Trust in, and value from, information systems

SANS

Appalachian State University
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
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
ITS - Office of Information Security

Current Major Projects and Partnerships

Secure CC Transaction Solution.
Student Security Awareness Initiative.
Data Protection Toolkit
Thoughts? / Comments? / Questions?
Next Steps

How Often Should We Meet?

Monthly?

Next Meeting Agenda?

Report on Our ISO 27002 Status?

Address:
- Security Policy Group
- Security Awareness Group
- Incident Response Group