



*Virginia Information Technologies Agency*

# Welcome and Opening Remarks

**Mike Watson**

**Nov. 6, 2019**





## ISOAG Nov. 6, 2019 Agenda

- Welcome and Opening Remarks - Mike Watson
- Incident Response Attack Lab - Brandon Lapetina
- Digital Transformation- Stan Lowe
- Audit Services Update - Mark McCreary
- ISO Services Update - Wes Kleene
- FY20 New and Enhanced Security Services Update - Bill Stewart, VITA and Darrel Raymond, ATOS



# Centralized IT Security Audit Service

**Mark McCreary, CISA, CISSP, CISM**  
Director

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ISOAG  
Nov. 6, 2019



## Agenda

- Audit Requirements
- Centralized IT Security Audit Service
- Risk-Based Audits
- Benefits of Using the Service
- Common Issues Identified During Audits
- Memorandum of Understanding/Ordering the Service

## IT security audits

IT security audit standard (SEC502) Requires:

- Annual audit plan submission for upcoming three-year period
- Audit of each sensitive system every three-years





## Centralized IT security audit service

- Assists with audit plan development
- Conducts risk-based sensitive system IT security audits
- Helps with management responses/corrective action plans



## Risk-based audits

Focus on high-risk areas

Leverage results of other audits or reviews:

- System and organization controls (SOC) reports
- Prior audit reports

### ECOS

- Emphasis placed on access controls and contingency planning (primarily areas where you have control)
- ECOS assessments/oversight

## Benefits of using the service

- Familiar with Commonwealth Security Standards and VITA operations
- More cost effective than private firms
- Knowledge retention

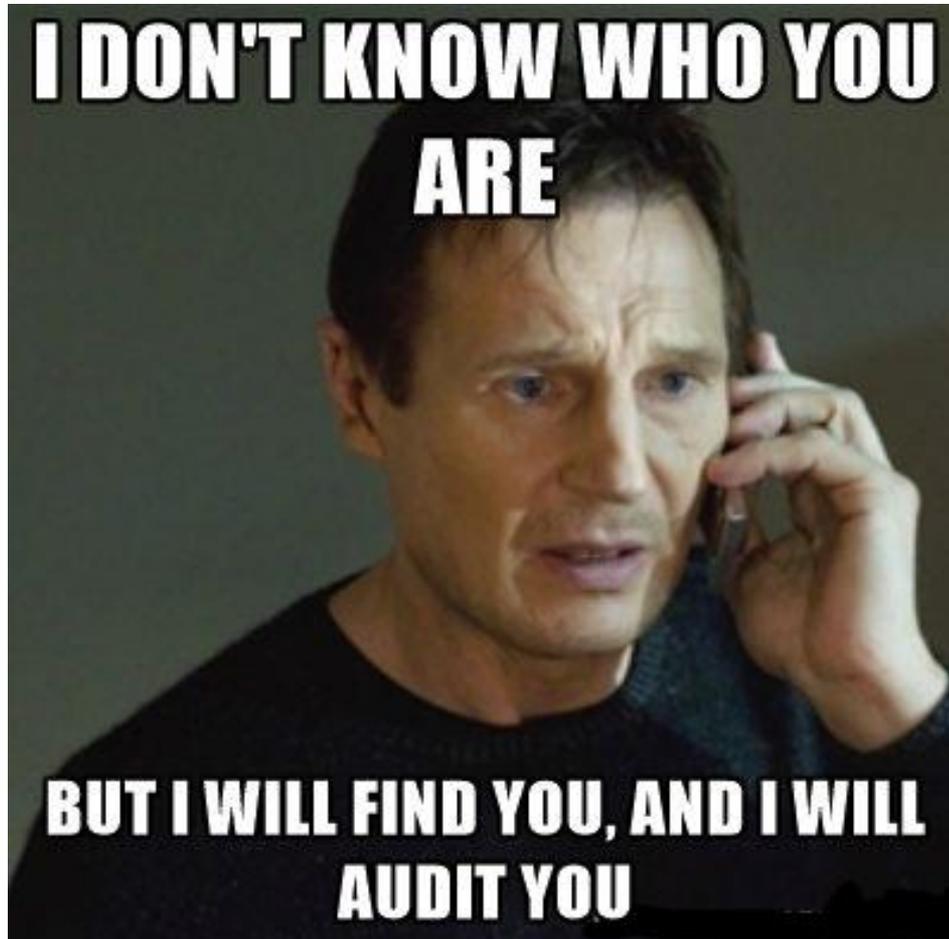




## Benefits of using the service

- Sensitive system audit compliance rose from 54% in 2017 to 92% in 2018.
- Completed IT security audits of 50 sensitive systems at 11 agencies in 2018.
- Helps to provide assurance that agencies are aware of any IT security issues related to their sensitive systems and are able to develop corrective action plans to address deficiencies.

## Common issues



## Common issues

- ❑ No formally documented and approved IT security policies and procedures
- ❑ ISO does not report to the agency head
- ❑ No 42-day password change frequency for:
  - Sensitive system authenticators
  - Administrative authenticators

## Common issues

- ❑ Using end-of-life software
- ❑ Account management
  - Inappropriate privileges for regular COV accounts. We find many cases where regular COV accounts have been made members of administrator security groups on servers and workstations.
  - Not disabling inactive accounts
- ❑ Tier III data center requirements not met

## Common issues

- ❑ Lack of two-factor authentication for:
  - Remote network connections for accessing sensitive systems
  - Network connections for accessing development environments or performing administrative functions on servers or multi-user systems. Two-factor is required for all network-based administrative access to servers and multi-use systems.
  
- ❑ Few security exceptions submitted

## Memorandum of understanding

- Identifies the in-scope sensitive IT systems
- DPB provides funding to GF agencies
- Based on number of systems, number of internal auditors performing IT security audits





## Questions/ordering the service

Contact me at:

[Mark.McCreary@Vita.Virginia.Gov](mailto:Mark.McCreary@Vita.Virginia.Gov) or  
(804) 416-5174





# Questions?

Email:

[CommonwealthSecurity@VITA.Virginia.Gov](mailto:CommonwealthSecurity@VITA.Virginia.Gov)



# Centralized ISO Security Services Update

**Wes Kleene, PhD, PE, CISM**

Director, Centralized ISO Security Services, VITA





## Work plan

**Business Impact Analysis**

**Inventory and Classification**

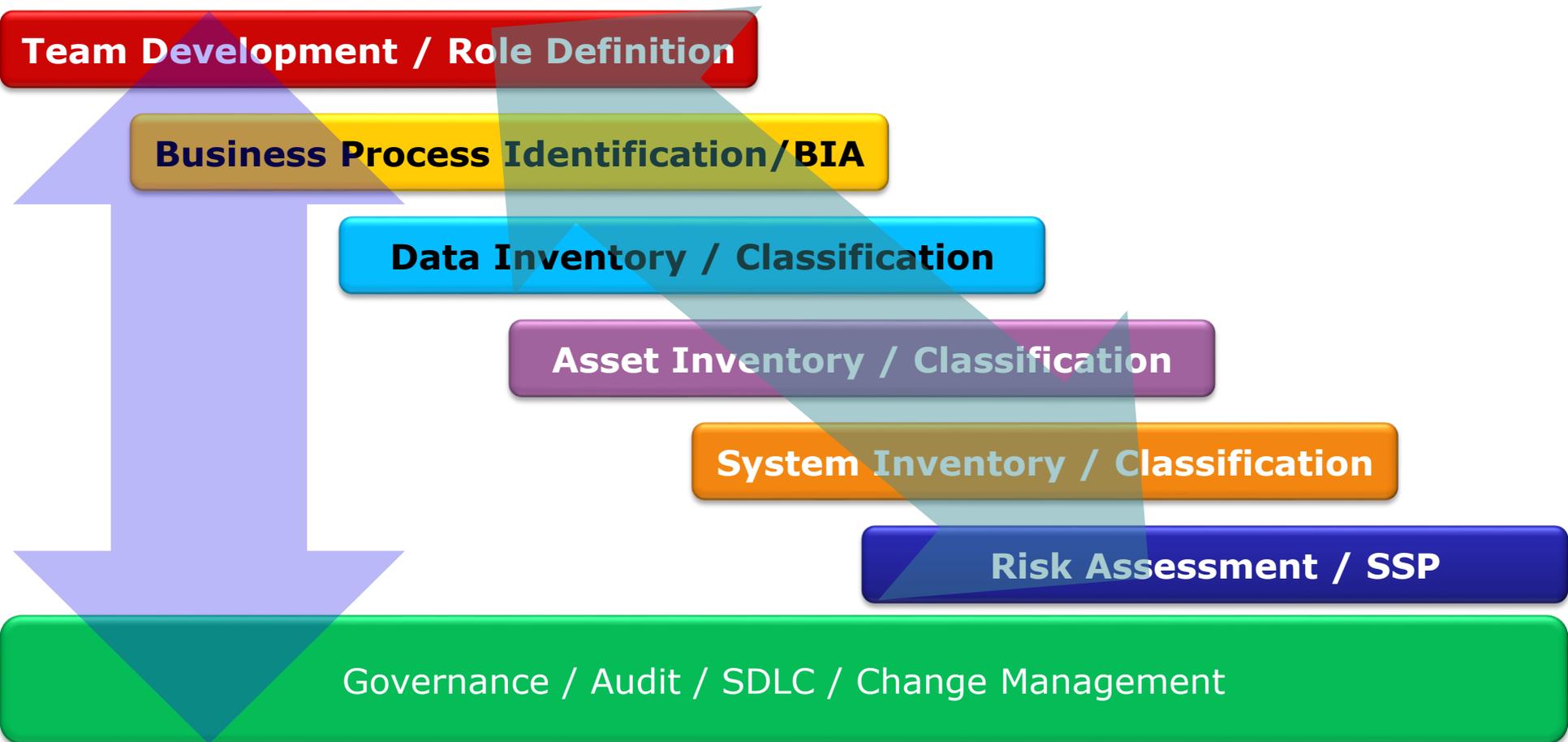
**Risk Assessments**

**Continuous Monitoring**

**Business Processes**

**Planning**

**Security Program / Incident Support**



# Framework

## RISK MANAGEMENT FRAMEWORK (RMF)





## Program benefits / observations

- BIA / business process development for approximately 36 agencies, universities, boards, etc.
- Accomplished over 160 sensitive system risk assessments over three-year period
- Increased risk compliance from approx. 35% (2017) to approx. 98% (2019)



## Program benefits / observations

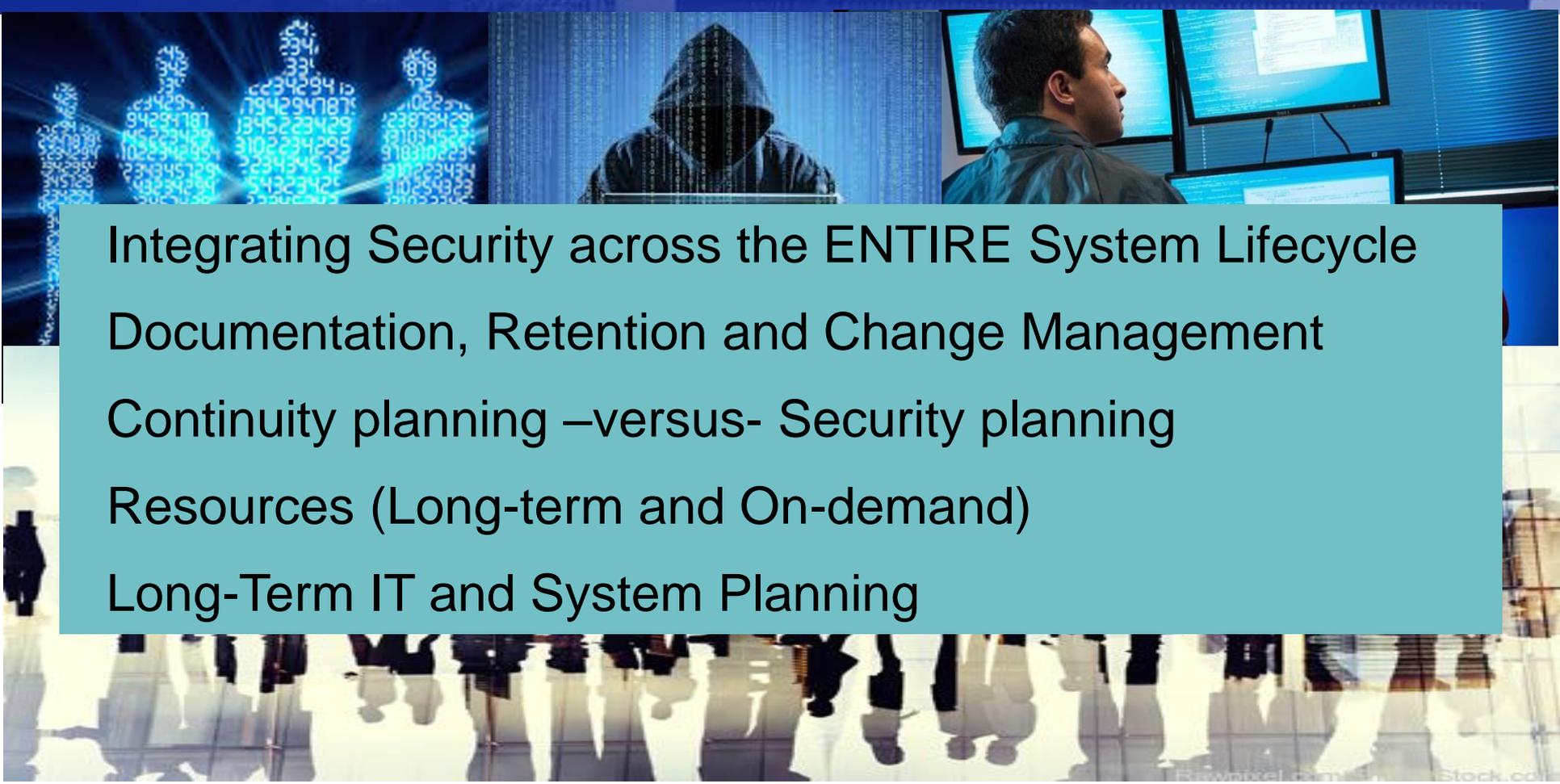
- Security assessments included over 400 agency-specific systems (included as part of business process needs or identified as non-sensitive based on agency determinations).
- Support to agencies during high-profile events and incidents
- Where applicable, provide support for security projects (phishing, pen-test, etc.)



## Who can answer the questions?

- Agency head / leadership
- Governance
- Business owner
- System owner
- Data owner
- Chief Information Officer
- Information Security Officer
- Privacy officer
- IT Project Manager
- Change Management
- System Administrator
- IT Database Administrator
- Application Administrator
- System Assessment Team
- Security Audit
- Incident Response Team
- Continuous Monitoring Team
- System Users

# Observations



Integrating Security across the ENTIRE System Lifecycle  
 Documentation, Retention and Change Management  
 Continuity planning –versus- Security planning  
 Resources (Long-term and On-demand)  
 Long-Term IT and System Planning



## Focus for 2020

- Agency-centric documentation to support business continuity and incident response.
- Procedural enhancements for ISO responsibilities such as:
  - Account review and approval
  - Software lifecycle planning – proactive approach
  - Risk governance, such as exception requests, system onboarding, asset inventory management
- Assessment and audit support



## Focus for 2020

- Overlap between enterprise applications and agency security program needs
  - Clear definition of agency role and requirements based on specific business functions within the agency
- Communication across executive level and security team
  - Support the SEC501 Standard for ISO reporting needs



# Centralized ISO security services

## Security and risk management programs

- Business functions / BIA
- Inventory and asset identification
- Data classification
- System classification
- Risk assessment and remediation plans
- Vulnerability scanning
- Incident response
- Assessment and audit support



# Centralized ISO Security Services

**Wes Kleene, PhD, PE, CISM**

Director, Centralized ISO Security Services, VITA





# FY20 New and Enhanced Security Services Update ISOAG Meeting

VITA – Bill Stewart  
Atos- Darrel Raymond

November 6, 2019





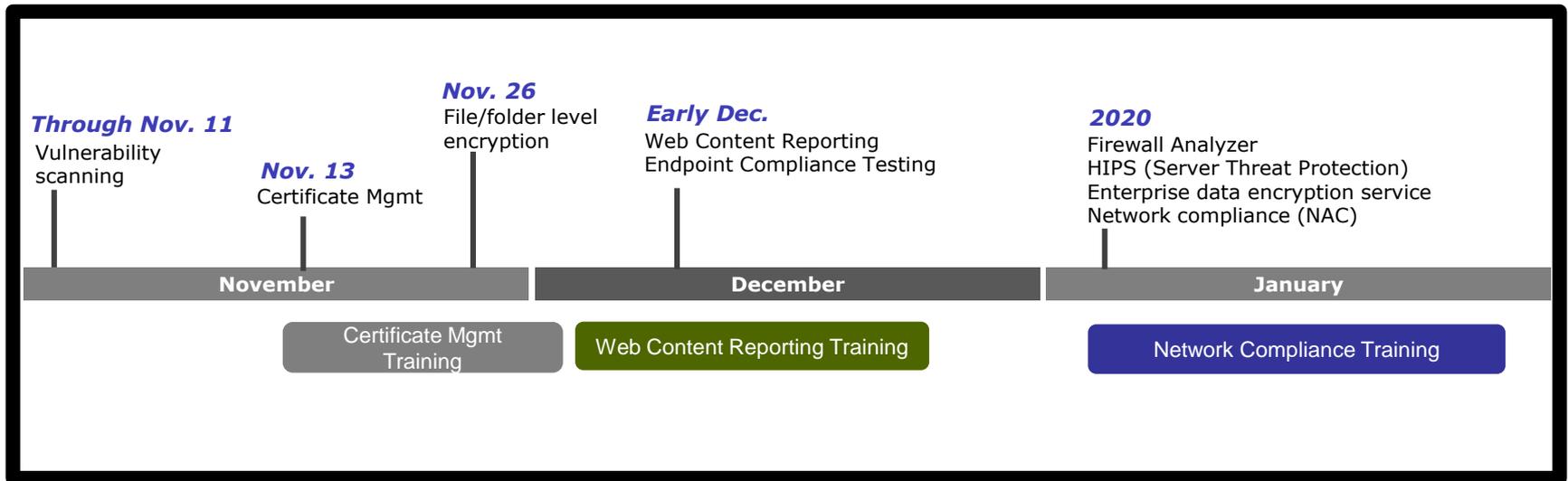
## Agenda

- New and Enhanced Services Rollout Schedule Update
- Certificate Management



# FY20 new and enhanced security services

VITA and its managed security supplier, Atos, are rolling out new and enhanced security services to enhance the security of the entire COV environment and provide agencies with more choice.



\*Schedule is tentative and subject to changes



# FY20 new and enhanced security services

New/Enhanced Service	Catalog or Enterprise Service	Expected Launch	Training	Rollout strategy
Application and source code security	Catalog	Launched Sept. 4	Provided after purchase	Catalog addition
Vulnerability Scanning and Management	Enterprise	Agency rollouts began Oct. 14		Rolling release
Large Firewalls	Catalog	Launched Oct. 30		Catalog addition
Data Tokenization	Catalog	Launched Oct. 30	Provided after purchase	
Certificate Management	Enterprise	Nov. 13	Yes – November 19 <sup>and</sup> 21	All agencies
Endpoint file/folder level encryption service	Catalog	Nov. 26	Job aid	Catalog addition
Endpoint Compliance Testing	Enterprise	Late November		Rolling releases
Web Content Reporting	Enterprise	Early December	Yes – early December	Rolling releases
Network Compliance	Enterprise	January	Yes – January	Rolling releases
Enhanced Data Loss Prevention service	Catalog	2020		Catalog addition
Firewall Analyzer	Catalog	2020		Catalog addition
HIPS (Server Threat Protection)	Enterprise	2020		Rolling releases
Enterprise data encryption service	Catalog	2020	Provided after purchase	Catalog addition

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## Overview – certificate management

Provides a multi-tenant suite of certificate management for servers and end-user devices

- Helps prevent certificates from expiring
- Provides 60, 30, and 10-days notifications that prevent certificate-based outages
- New self-service portal to view all agency certificates and expiration dates
- Enforces VITA's standard certificate requirements
- Nothing is changing to the procurement process

**Launches Nov. 13**



## Access and training

### Access to self-service portal

- AITRs and ISOs will be granted access to the new tool
- Additional agency representatives can be given access through VCCC ticket

### Training

- Webex training Nov. 19 and Nov. 21, 1:30–3 p.m.
- Invitations will be sent to AITRs and ISOs this week
- Additional agency representatives can be invited



Virginia Information Technologies Agency

# Upcoming Events





# IS Orientation

Dec. 10, 2019

1–3 p.m.

Room 1221

Register @:

<http://vita2.virginia.gov/registration/Session.cfm?MeetingID=10>



## Future ISOAG

**Dec. 4, 2019 @ CESC 1-4 p.m.**

**Speakers: Kathryn Rinker, NW3C  
Marlon Cole, VITA**

**ISOAG meets the first Wednesday of each month in 2019**

# ADJOURN

## THANK YOU FOR ATTENDING

