



Agile Risk Management – Enabling the Adoption of Data, Analytics and Al

Daniel C. Holtzman, SL, CES

Chief Information Officer (CIO); Principle Deputy, Acquisitions & Assurance; Authorizing Official (AO) & Senior Component Official for Privacy (SCOP)

Authorizing Official for: DoD CDAO

JSF F-35 ALIS

September 24, 2024

Decision Advantage From the
Battlefield to the Boardroom
Acceleration of the DoD's Adoption of
Data, Analytics, and AI

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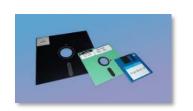
Culture Change Challenge: Unperceived Bias



96

Cool, you 3D printed the save icon!

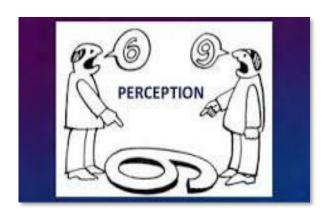




Two thirds of children don't know what a floppy disk is

Children aged 6-18 were shown the photos below and asked if they knew what each was. Figures shown are the % of children who either said they didn't know what the item was, or gave an incorrect answer (children answered in their own words)





Do you know the answers to these?

Do you realize your own bias?

Communication is key to culture change



"Change your thoughts and change your world." - Norman Peale

YouGov yougov.com

Agenda



 Chief Digital & Artificial Intelligence Office (CDAO)

GG

 Operation Vulcan Logic – Agile Risk Management Cybersecurity and resiliency is a journey; not a destination.

Deep Thoughts

— D.C. Holtzman







CDAO - Mission and Functions



Mission:

Accelerate DoD's adoption of data, analytics, and AI to generate decision advantage from the boardroom to the battlefield.

Functions:

- **1. Lead and oversee** DoD's strategy development and policy formulation for data, analytics, and Al.
- 2. Break down barriers to data and Al adoption within DoD institutional processes (serve as a "demanding customer").
- 3. Create enabling digital infrastructure and services that support Components' development and deployment of data, analytics, AI, and digital-enabled solutions.
- **4. Selectively scale** proven digital and Al-enabled solutions for enterprise and joint use cases.
- 5. Surge digital services for rapid response to crises and emergent challenges.



Data, Data - Its all about the DATA



DATA AS A PRODUCT

Data has value when producers make promises to customers

2

DATA DOMAIN OWNERSHIP

Functional leaders responsible for driving enterprise data products

3

FEDERATED
COMPUTATIONAL
GOVERNANCE

Sharing and use must be increasingly automated



SELF SERVICE PLATFORMS

Users at echelon to create value using the ecosystem of distributed platforms





The Sea is our DATA – All Boats can use the Sea





The CDAO Mission

Accelerate DoD's adoption of <u>data</u>, <u>analytics</u>, <u>and Al</u> to generate **decision advantage**, from the <u>boardroom to the battlefield</u>

The DoD OATSD(PCLT) Mission

Implement the Department of Defense's <u>Privacy, Civil</u> <u>Liberties</u>, and <u>Freedom of Information programs</u>.

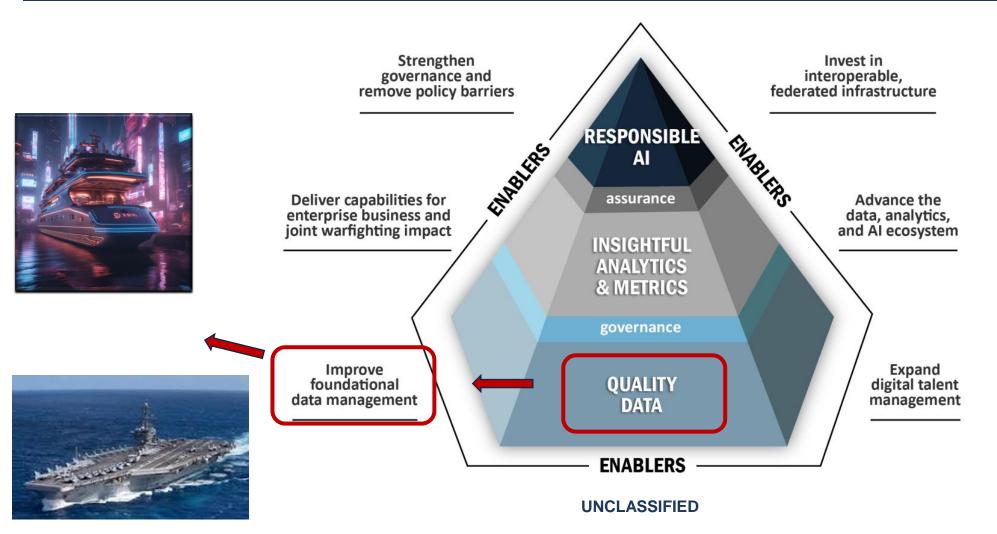




Al Hierarchy of Needs



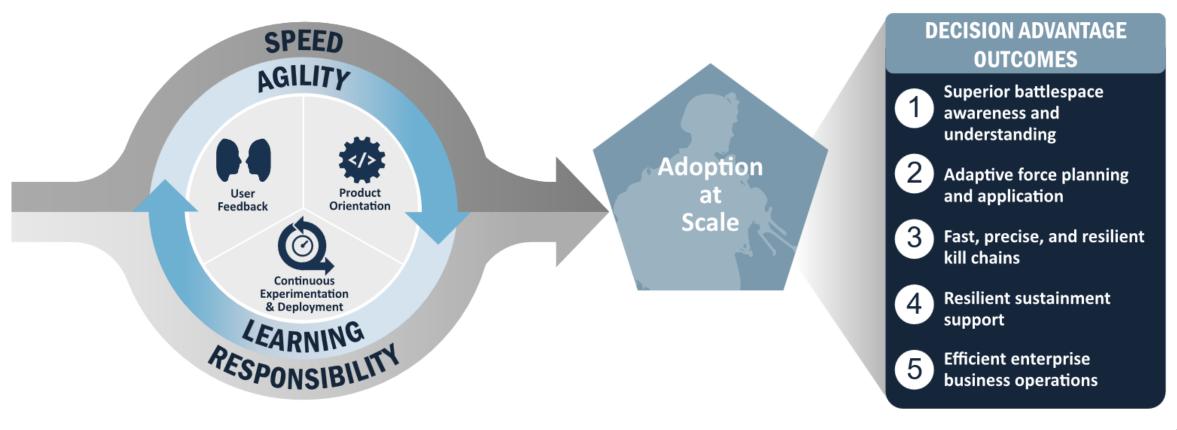
The goals outlined in the Strategy advance the Department's technical maturity to support analytics and AI/ML at scale





Employing an Agile Approach to Adoption







Agenda



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 Operation Vulcan Logic – Agile Risk Management

Deep Thoughts

Back-up info on Operation Vulcan Logic

The most dangerous phrase in language is:

We've always done it this way

— Admiral Grace Hopper, USN

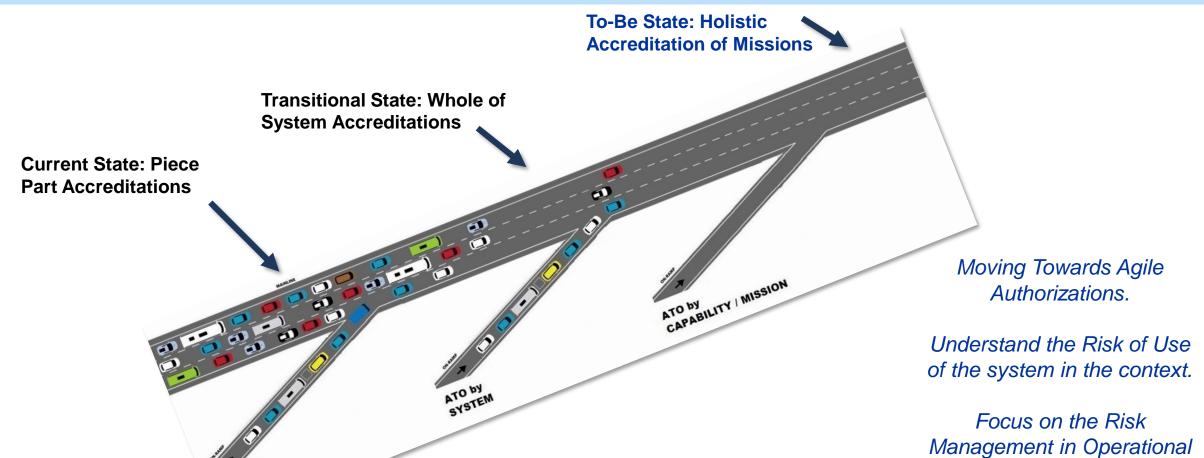






Highway to Resilient Capabilities





Traditional Boundary Configuration Management is no longer sufficient in a software-defined, ubiquitous, connected environment.

CDAO

Context.

Agenda



Challenge:

The Cyber Security (ATO) execution process in general, to date, has been very compliance focused, resource and time intensive.

While the ATO approval process is an important contributor to implementing cybersecurity and managing risk, delays in fielding new systems and capabilities can bring their own risks by extending the use of legacy (often less secure) capabilities.

DODs RMF implementation intent is to deliver secure, resilient, and survivable mission functionality, where the system design achieves the right balance between mission and cyber functionality such that the system can perform all necessary mission functions, in a cyber-contested effvironment, with an appropriate level

Way Forward:

Operation Vulcan Logic (OVL) is a risk-centric, agile, authorization Ecosystem

Where the Authorizing Official (AO), the programs/capability developers, and the systems/capabilities seeking authorization have clear outlined Criteria, Observables and Behavior (COB) expectations

Templates/exemplars to leverage, based on the proven analytics of over 2,000 successful mentations.



OPERATION VULCAN LOGIC

Operation Vulcan Logic (OVL) is a mature, proven, agile Ecosystem that achieves the intent of the RMF.

BACKGROUND:

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COLLABORATIVE EXECUTION

Purtnerships with all stakeholders
enables a helitic view and enables reciprocity
exceptority

**Transmiss experience and increase And **Transmiss experience and **Transmiss



Operation Vulcan Logic (OVL): BLUF



See Handout



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- Previous Assessmen
- Tex Results (Red/Blue/Etc.)

Standard Acquisition Systems Engineering Data

Grow & in

PROGRAM MANAGEMENT

+Facilitate Risk management across all stakeholders in an integrated, holistic



- Mapping of Authortotion Strategy to Strategy/Need Haximize re-use of previous
- Operational Use Perspective

COLLABORATIVE EXECUTION

Partnerships with all stakeholders enables a holistic view and enables



*Stakeholder collaboration via "AO *Streamline expectations and increase Agility

https://arlo-solutions.com/ovl



Across domains

Over 2,000 Authorizations

Proven Risk-based

Ecosystem

Achieved Reciprocity

Agility in execution

Continuous updating

Collaboration with Industry via NDIA

■ SAMPLE ONBOARDING MODULES

Security Officer, AFLCMC Det 12, Kessel Run

answer the majority of the questions you would have." Steven Pruskowski - cisa.dhs.gov

Module 0: AD's Perspectiv

- Mr. Holtzman
- Module 1: OVL
- What Is It?
- Background
- Fast Track and RMF Module 2: AO
 - Roles and Responsibilitie
 - AODRs AO Objectives, Enablers, and Collaborations
 - Module 3: Cyber Risk Assessor (CRA)
 - ACI Playbook v I.0 Introduction
 CRA Responsibilities
 - CRA Onboarding v1.0
 CRA Playbook v1.0
- Module 5: CRA Assessment In/Out Briefing Assess-Only Process

Module 4: Body of Evidence, Artifacts,

Information Tools

· AO Determination Brief

· AO Determination Brief Guide

DSOP CONOPS i applicable

Draft AO Authorization Lette

CBA Recommendation Letter

user friendly, especially with the "Tips to Success". From my perspective with an AO providing that information, it shows the project

that you are wanting the project to be successful and giving them what you are looking for up front so that the project would be able to

OVL implementation of the DAF Fast track - "What Fast Track really provides is agility. It means we're not stuck once we go down a road and find out six months later that there's a better path. It allows us to experiment boldly and remove items that aren't adding the value we initially thought they would. It empowers you with freedom, then demands you to exercise it judiciously." Brandon Johns, NH-04/GS-15, Chief

- Security Assessment Plan (SAP) Risk Assessment. Report (RAR)
- Security Assessment Report (SAR) Plan of Action and Milestone (PCIA&M)
- Authorization Determination Package
- Phased Approach

Module 6: Continuous Execution

Sustainment and Maintenance

Repository (eMASS/Xacta, etc.)

Module 7: Agile Authorization

Putting All of This Together

Conditions/Residual Risks

No Security Impact (NSI)

Risk Assessment Report

STIGs and Scans

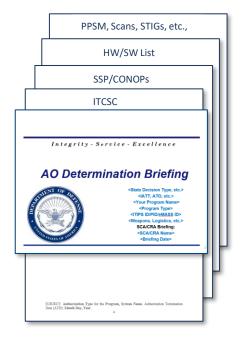
Reciprocity

Continuous Monitoring Plan (ConMon)

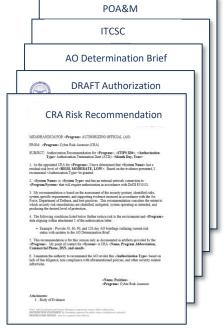
Operation Vulcan Logic (OVL) Authorization Templates Simple, Effective, Agile



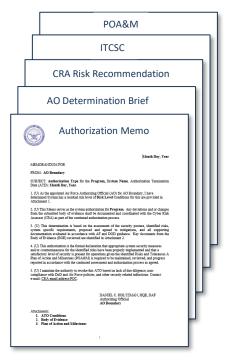
AO Determination Briefing and Supporting Evidence



CRA Risk Recommendation



Authorization Package



Meets all DoDI 8510 and DAF policy requirements for RMF

Authorization Memo has list of BOE that was used to increase reciprocity

Not a workflow or set of "artifacts"

Risk Analysis informed by threat/intel, stakeholder tolerance and operational mission parameters

Provides the AO with an independent Assessment

Not a one-time product, developed over time working hand in hand

Authorization starts the lifelong commitment to improving cyber every day



Standardization is Flexible for Authorization Packages; No One-Size-Fits-All Approach

Agile Authorizations: Enabled by Disciplined Systems Engineering

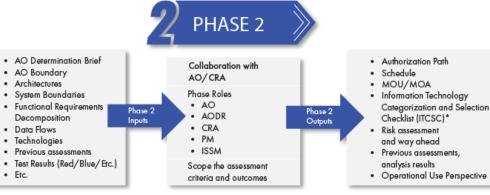




Focus on what is known

Continue to move forward

Articulate Risk of Use



Iterative

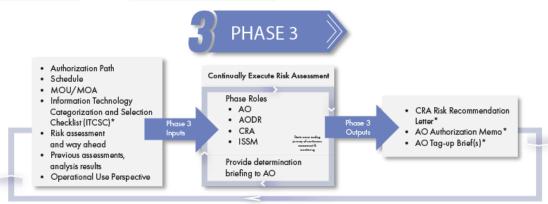
Agile

Risk-Based

Requires solid foundations

Systems Engineering Up Front

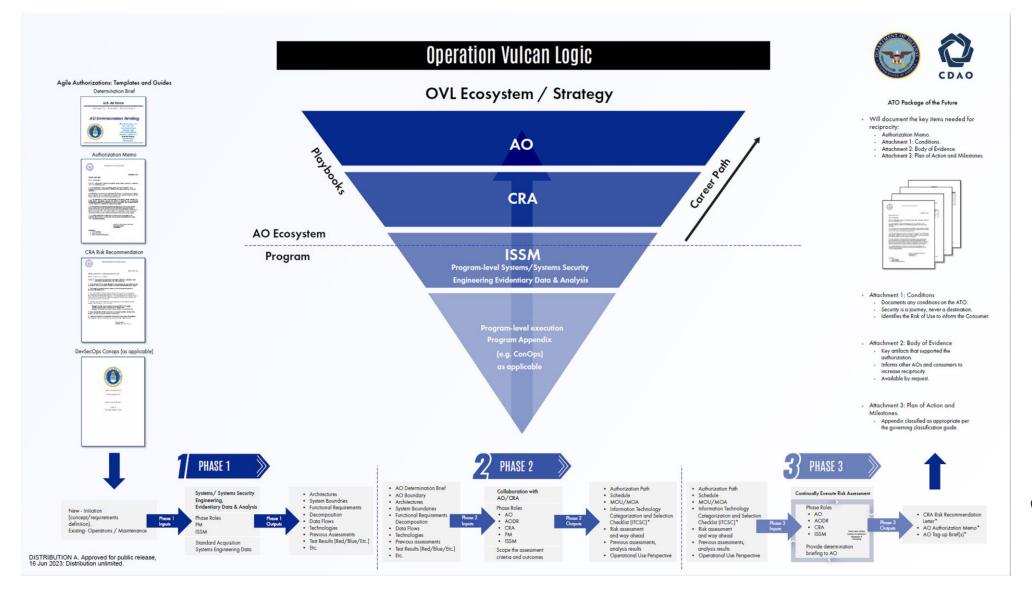
Lifelong Commitment





Operation Vulcan Logic (OVL) Ecosystem: Systems Engineering-Based – Go Slow to Go Fast







CDAO Organizational Risk Tolerance Baseline (ORTB): Foundational Areas of Risk – Analytics based impact



- 1. Account Management (Aligns to ORTB: AC-2)
 - Monitor and Enforce user and group account creation/deletion
- 2. Administrative Privileged Accounts (Aligns to ORTB: AC-6)
 - Privileged user/service accounts are only authorized to perform security relevant functions. Review and approve annually.
- 3. Audit Review, Analysis, and Reporting (Aligns to ORTB: AU-6)
 Review and analyze Information System (IS) audit logs for indications of inappropriate or unusual activity and reports findings to designated personnel IAW IRP
- 4. Boundary Protection (Aligns to ORTB: SC-7)
 - Monitors and controls communications at the external boundary of the system and at key internal boundaries within the system
- 5. Continuous Monitoring (Aligns to ORTB: CA-7)
 - System level monitoring metrics, including control monitoring frequencies, are defined by the organization and approved by the AO
- 6. Data Integrity (Aligns to ORTB: SI-7)
 - Employ automated tools to report system (hw/sw/fw) and information (data) integrity violations. Ensure automatic integrity validation of all electronically transmitted software and data
- 7. External Connections (Aligns to ORTB: CA-3)
 - Agreement/authorization used to approve external connections and manage the exchange of information should be defined (ATC, ISA, CSA, ICD, etc.) and reviewed annually
- 8. External Media (Aligns to ORTB: AC-4, MP-7)
 - If authorized, place configuration control process on all external media including auditing. Institute external media whitelisting. Implement processes to monitor logs and audit usages.
- 9. Information Flow Enforcement (Aligns to ORTB: AC-4)
 - The information system enforces approved connections for controlling the flow of information within the system and between interconnected systems

10. Least Privilege (Aligns to ORTB: AC-6)

Reviews, at least annually, the privileges assigned to privileged user accounts including Designated Transfer Agent and Trusted Cloud Credential Manager roles

- 11. Operational Change Management (Aligns to ORTB: CM-8, CM-8(3), SI-7)
 - Automated mechanisms shall be used to detect the presence of unauthorized hardware/software/firmware within the system. One or more of the following action shall be taken upon discovery of unauthorized components: disable network access by unauthorized components; isolate unauthorized components; notify designated personnel identified in IRP
- 12. Proposed Equipment (Aligns to ORTB: SA-22-applies to C.I.A. impact High on non-SAP systems, CM-3)

Lock down all mission support systems and migrate off unsupported operating systems. Review support agreements (hw/sw/fw) annually

- 13. Protection of Information at Rest (Aligns to ORTB: SC-28, SC-28(1))
 - Encryption is implemented to complement protection of information at rest, using approved cryptographic methods for data encryption
- 14. Secure Baseline Configuration (Aligns to ORTB: CM-2, CM-6)
 - This Information System's secure configuration includes DoD Security Technical Implementation Guides or industry best practices and verified conformance prior to introduction into production or operational environments
- **15. Security Categorization (Aligns to ORTB: RA-2)**Enforce proper security categorization and review annually
- 16. Separation of Duties (Aligns to ORTB: AC-5)
 - Separates defined duties of individuals and documents separation of duties of individuals
- 17. Vulnerability / Anti-Virus Scanning (Aligns to ORTB: RA-5)
 - Conduct routine anti-virus scans on traditional IT systems and hosted applications. Institute continuous monitoring protection on all IT systems to include maintenance and testing support systems

*Red font indicates specific JSIG, Non-Tailorable controls

CDAO Organizational Risk Tolerance Baseline (ORTB): *Draft Al-Specific Areas*



Al Foundation (Aligns to CDAO ORTB: 4/5/6/13/17)

- Encrypt any stored Al-related data and models
- Regularly patch AI components (hardware and software) on known vulnerabilities and update threat definitions
- Account for vetting of AI supply chain

Data Integrity (Aligns to CDAO ORTB: 4/6/9/11/17)

- Depict provenance and lineage of datasets used for training models
- Implement mechanisms that ensures the integrity and authenticity of ingested data against adversarial attacks.
- Ensure privacy of personal data, anonymizing information where necessary
- Establish data retention and disposal mechanisms

Model Management (Aligns to CDAO ORTB: 3/4/11/17)

- Depict architecture, justification, and rationale for the selection of a specific model
- Establish regular evaluation and validation procedures of training models
- Ensure rollback mechanism for models, configurations, and training data

Operational Resilience (Aligns to CDAO ORTB: 3/5/14/17)

- Regularly employ red teaming testing methodologies and maintain logs of outcomes
- Continuously monitor system performance metrics against predefined benchmarks or thresholds for validation

User Interaction (Aligns to CDAO ORTB: 1/2/10/16)

- Incorporate mechanisms for users or other stakeholders to provide feedback on model output
- Implement oversight on user interactions, including data input, queries, and code base changes

Responsible Accountability (Aligns to CDAO ORTB: NEW)

- Implement tools and/or methodologies that can elucidate model decisions
- Implement DoD Responsible AI (RAI) principles

Seeking Collaboration to experiment, flush out, path find, validate

*Draft Al-Specific Cyber Risk Areas are derived from—and aligned to—CDAO ORTB Foundational Areas of Risk

Operation Vulcan Logic (OVL) – Applicability (#YESIF)





- Advana
- SUNet
- LongBow
- MAVEN

NGAD

- Hack-a-Thon's
- JADC2
- ElTaaS
- SEITaaS
- Commercial UAS
- RDT&E DREN . TORCC



- ShOC-N
- Wide-Area Surveillance
- RADSIL
- BACN
- ACBN
- C2IMERA



- PRC2
- WaRTAK
- GCCS / DCGS
- Pocket-J
- TBMCS
- Mission Planning
- Special Programs



- JADC2/ABMS
- Kessel Run/AOC
- Cloud One/Platform One
- E3 AWACS and JSTARS
- F-35 ALIS
- F-35 Cloud and DevSecOps
- GBSD Cloud and DevSecOps



Over 2,000 Authorizations

Proven Risk-based Ecosystem

Over 2,000 Authorizations

Across domains

Achieved Reciprocity

Agility in execution

Continuous updating



Operation Vulcan Logic (OVL) Enabling the Ecosytem



- Cyber Security is a Team Sport
- Partnerships, collaboration and sharing are key to success
- Everyone is under attack
- CDAO On boarding is available to all
- Future Round tables are planned
 - Sharing best practices
 - Learning from each other
 - Increased awareness of environment
- The Cyber Threat impacts us all!



OPERATION VULCAN LOGIC (OVL) ONBOARDING TRAINING REGISTRATION

OVL is a mature, proven, agile Ecosystem that achieves the intent of the RMF.



What is Operation Vulcan Logic?

- The ATO execution process in general, to date, has been very resource and time intensive. While the ATO approval process is an important contributor to implementing cybersecurity and managing risk, delays in fielding new systems and capabilities can bring their own risks by extending the use of legacy (often less secure) capabilities.
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 programs, and the systems/capabilities seeking authorization have clear outlined Criteria, Observables, and Behavior (COB)
 expectations and templates to leverage, based on over 2,000 successful implementations.
- OVL is rooted in the tenants outlined in NIST SP 800-160 and the innate responsibility of practicing Systems/Systems
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 process flow has been outlined to assist the programs and CRAs (Cyber Risk Assessor play a similar role as Security Control
 Assessor (SCA) in communicating with a common frame of reference.

Purpose of Training

The Cyber Risk Assessor (CRA) is responsible for providing the Authorizing Official (AO) with an independent "Cyber Risk
Analysis" and acceptable "Risk of Use" for the system or capability throughout the entire Operation Vulcan Logic (OVL)
Ecosystem Agile Authorization process while focusing on criteria, observables, and overall behaviors. This training
provisions the CRA with the knowledge, skill and ability to perform security assessments utilizing the Operation Vulcan



An Authorizing Official's Perspective on Agile
Authoriation

https://arlo-solutions.com/ovl



Agenda



 Chief Digital & Artificial Intelligence Office (CDAO)

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 Operation Vulcan Logic – Agile Risk Management

Artificial intelligence is a tool, not a threat

Deep Thoughts

— Rodney Brooks



Back-up info on Operation Vulcan Logic



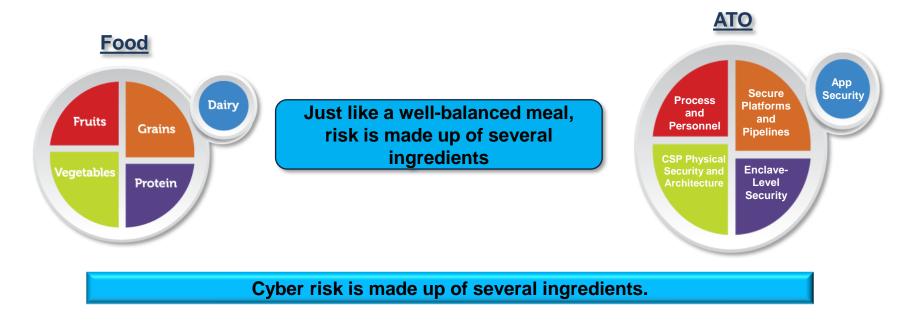


Cyber Risks Facts Label What if we could?



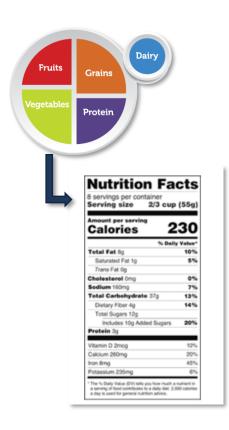
- Application Security is NOT just about the security of the application itself:
 It is a layered perspective (hosted environment, TTPs, etc.).

 - As one goes lower in an application architecture, the potential for harm increases.
- An Authority to Operate (ATO) is a risk-based determination and includes many factors:
 - The technology employed, the execution processes, the hosting environment, the risk tolerance, etc.
 - The ATO is a statement of the "Risk of Use," informing the consumer.

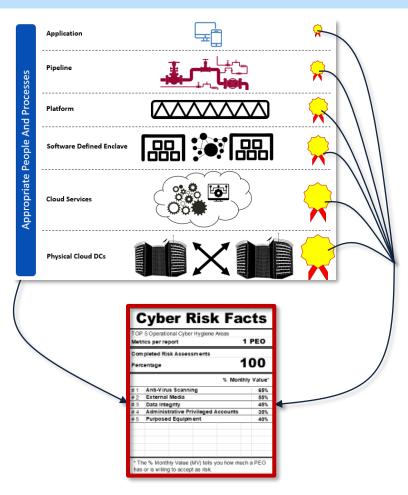


Cyber Risks Facts Label: Allowing for an Informed Consumer





- A Nutrition Facts label shows the consumer WHAT nutrients are in the food based on FDA guidelines.
- A Cyber Risk label shows the consumer what the RISK OF USE is for an application based on ATO Guidelines.



Cyber Risk label is the foundation to an informed consumer and enables true reciprocity.



Questions / Discussions







This is a work in progress. Need to continue to collaborate.





OPERATION VULCAN LOGIC

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Systems/Systems Security Engineering Evidentiary Data & Analysis

- Architectures
- System Boundaries
- Functional Requirements Decomposition
- Data Flows
- Technologies
- Previous Assessments
- Test Results (Red/Blue/Etc.)

Standard Acquisition Systems Engineering Data

Grow it in

PROGRAM MANAGEMENT

 Facilitate Risk management across all stakeholders in an integrated, holistic manner

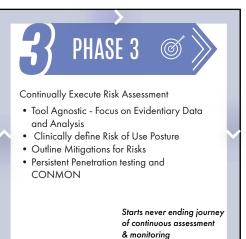
PHASE 2 PHASE 2

Collaboration with AO/CRA

- Discuss risk assessment and way ahead
- Mapping of Authorization Strategy to meet Acquisition/Execution Strategy/Need
- Maximize re-use of previous assessments analysis results
- Operational Use Perspective

COLLABORATIVE EXECUTION

 Partnerships with all stakeholders enables a holistic view and enables reciprocity



ENABLERS

- Single, Lead AO for each system/capability
- Stakeholder collaboration via "AO Committee"
- Streamline expectations and increase Agility





OPERATION VULCAN LOGIC

■ COMMUNITY FEEDBACK

CRA Training - "This training was very well put together – The only suggestion I have is to get this training out as soon as a CRA/SCAR is on boarded. I am also implementing this training for all my SCARs as I need them to know what I know. I hate to say to make this training Mandatory, but in this case, I think it should be for all SCAs and SCARs." Gary "Scott" Ennis, AFNW-C/NXZT Security Control Assessor, Assessments Branch, Ground Based Strategic Deterrent (GBSD)

CRA Training - "This training needs to be provided to the Program also. The flow diagram needs to be stressed. The responsibility to provide all the necessary documentation to the CRA and the independent role of the CRA needs to be emphasized to the Program." Denise Madison, Enterprise Information Systems Security Manager (ISSM), Cybersecurity, F-35 Lightning II Joint Program Office

CRA Training - "My only suggestion would be for the example documentation to be available to non-CaC holders." Aaron Owens, Director of Security (DoS), Second Front Systems

DSOP - "They're very detailed, and I think they cover quite a bit to help organizations adopt DevSecOps. I especially love the call to action(s) in the documents, the need for change to actually implement innovation." Brian Fox - Director of the National Security and Intelligence Portfolio, 18F

DSOP - "Thank you for the opportunity to review the DSOP CONOPS. My overall thoughts on the document are that it is very user friendly, especially with the "Tips to Success". From my perspective with an AO providing that information, it shows the project that you are wanting the project to be successful and giving them what you are looking for up front so that the project would be able to answer the majority of the questions you would have." Steven Pruskowski – cisa.dhs.gov

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■ SAMPLE ONBOARDING MODULES

Module 0: AO's Perspective

• Mr. Holtzman

Module 1: OVL

- What Is It?
- Background
- Elements
- Fast Track and RMF

Module 2: AO

- Introduction
- Roles and Responsibilities
- AODRs
- AO Objectives, Enablers, and Collaborations
- AO Playbook v1.0

Module 3: Cyber Risk Assessor (CRA)

- Introduction
- CRA Responsibilities
- CRA Objectives v1.0
- CRA Onboarding v1.0
- CRA Playbook v1.0

Module 4: Body of Evidence, Artifacts, Information Tools

- AO Determination Brief
- AO Determination Brief Guide
- CRA Recommendation Letter
- DSOP CONOPS if applicable
- Draft AO Authorization Letter
- ITCSC

Module 5: CRA Assessments

- In/Out Briefing
- Assess-Only Process
- Security Assessment Plan (SAP)
- Risk Assessment Report (RAR)
- Security Assessment Report (SAR)
 Plan of Action and Milestone (POA&M)
- Authorization Determination Package (Minimal Requirements)

Module 6: Continuous Execution

- Continuous Monitoring Plan (ConMon)
- Conditions/Residual Risks
- Sustainment and Maintenance
- No Security Impact (NSI)
- STIGs and Scans
- Risk Assessment Report
- Reciprocity
- Repository (eMASS/Xacta, etc.)

Module 7: Agile Authorization Ecosystem

- Putting All of This Together
- Phased Approach
- Summary

"Absolutely executable for Special
Access Programs (SAP)... proven to be able
to do so. Development of a system will not be
constrained by executing this logic... if you do this
well, a program will identify MORE during stages in
which changes/mitigations can be made earlier on... and it
will prove fruitful later – as a more secure system... or maybe even
discovering that you didn't get what you asked for."

-JACK W. RHODES III, Lt Col, USAF, Program Manager, DAF SAF

Operation Vulcan Logic Agile Authorizations: Templates and Guides **OVL Ecosystem / Strategy Determination Brief** ATO Package of the Future Office of the Secretary of Defense **AO Determination** • Will document the key items needed for reciprocity: Authorization Memo. AO Attachment 1: Conditions. • Attachment 2: Body of Evidence. Authorization Memo • Attachment 3: Plan of Action and Milestones. DIFFES OF THE MICHIES OF REFERENCE DIFFES RESPECTATION OF REFERENCE OF SERVICE OF THE MICHIES OF THE OWNER OWNER OF THE OWNER OWNER OWNER OF THE OWNER OW **CRA** HIFFEDNCES (a) Dell'Autoreties (STEER, Rais, Management Francevolt, for Dell' Rifermation Technology, deed Toly 19, 2022 (b) Est Deast Special Auson Deagloss Improsentelos (Seide, dand Ap 11, 2016, magazinel Chemics, 2006) 4. 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On the CANO indus OFFICE OF THE SECRETARY OF ERPORE ENER FORTIA & ATTRICAL MINISTRAL OFFICE EN COA O (Standing by Taury **Program-level Systems/Systems Security** FDOM: «Pragram» Cyber Roll Assessor (CRA) SUNDET: Archeroscine Recommunitions for «Pragram», «FIFFS IDE», «Authoritation Type» Authoritation Technical David (ATD): «March Bay, Year» **Engineering Evidentiary Data & Analysis** As the appointed CEA for «Programs», I have described that «System Name» has a resulted soil level of «SECIR, MODERCHE, LOW». Based on the evidence processed, I reconstrued. *Authorization Type» be granted. Note that Name is Nighten Type and her an extend sowerk contection to Programs System that will regular undertexten in accordance with DOM \$79.00. Attachment 1: Conditions Documents any conditions on the ATO. The following conditions fasted below fasther notice risk to the sentimenent and "Fregreec-dus of going within attachmen. I of the authorization letter. · Security is a journey, never a destination. Strengte - Provide 33, 40, 98, and 135 day AO benefitigs outlining current risk mates with updates or the AO Determination Strict. This recommendation to for this receive only as decremented in artifices provided by the -thrograms. My potential contact for responses in CRA-Name, Program. Attendation, Commental Prices, DON, and results: · Identifies the Risk of Use to inform the Consumer. I maintain the authority to recommend the AD create this "Authorization Type" based on lack of the old group, son-compliance with proporational policies, and other security-rational infractions. Program-level execution Program Appendix Attachment 2: Body of Evidence Key artifacts that supported the DevSecOps Conops (as applicable) (e.g. ConOps) authorization. Informs other AOs and consumers to as applicable increase reciprocity. Available by request. CDAO "Replace with Digustation logo" *March year organization* DerSexOpe Concept of Operations (DBOP CONORS) Vancium VII.1 · Attachment 3: Plan of Action and Milestones. · Appendix classified as appropriate per the governing classification guide. DESTRUCTION NOTICE: Must be completed when filled PHASE 1 AO Determination Brief Authorization Path Authorization Path Collaboration with Systems / Systems Security Continually Execute Risk Assessment Architectures AO Boundary Schedule Schedule AO/CRA System Boundries Architectures MOU/MOA MOU/MOA **Evidentiary Data & Analysis** Phase Roles Functional Requirements Phase Roles Information Technology System Boundaries • Information Technology New - Initiation AO CRA Risk Recommendation Decomposition Functional Requirements AO Categorization and Selection Categorization and Selection (concept/requirements Phase 2 Phase Roles AODR AODR Data Flows Checklist (ITCSC)* Decomposition Checklist (ITCSC)* Outputs Technologies CRA CRA Risk assessment AO Authorization Memo* Data Flows Risk assessment Existing- Operations / Maintenance ISSM Previous Assessments ISSM AO Tag-up Brief(s)* PM Technologies and way ahead and way ahead Test Results (Red/Blue/Etc.) ISSM Previous assessments • Previous assessments, • Previous assessments, Standard Acquisition Provide determination Etc. Test Results (Red/Blue/Etc.) analysis results Systems Engineering Data analysis results Scope the assessment briefing to AO Etc. Operational Use Perspective Operational Use Perspective criteria and outcomes DISTRIBUTION A. Approved for public release, 16 Jun 2023: Distribution unlimited.