

Department of the Air Force

Integrity - Service - Excellence

Operation Vulcan Logic (OVL): Risk Management with Agility



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Director, Cyberspace Innovation (A);
Cyber Technical Director;

Authorizing Official for:

JSF F-35 ALIS;
F-35 Cloud & DevSecOps;
DAF Cloud & DevSecOps
GBSD Cloud and DevSecOps;
Command & Control Systems;
Rapid Cyber Acquisitions (RCA);
Enterprise IT as a Service (EITaaS);
SAP Command and Control Systems;
SAP Rapid Cyber Acquisitions (RCA);
SAP Enterprise IT as a Service (SEITaaS)

6 December 2021
NDIA



Operation Vulcan Logic

VULCANLOGIC@US.AF.MIL

Handout →



OPERATION VULCAN LOGIC
Operation Vulcan Logic (OVL) is the operationalization of the DoD Fast Track process.

BACKGROUND
The DoD Fast Track process under OVL is to deliver faster for better war-fighting outcomes. While the DoD Fast Track process is an important contributor to the overall goal of expediting software delivery and ensuring the reliability of software systems, OVL is building on existing DoD Fast Track success by leveraging the use of agency culture for several capabilities.

OVL is a multi-agency effort to create a common framework for the program and process to ensure information flows without silos, share within, and between OVL participants and agencies to ensure that consistency with the existing OVL culture and information dissemination.

It is essential for program leaders to ensure responsibility of providing System/Function/Security Requirements, which are OVL Security and Software System, throughout the entire development lifecycle (OVL). OVL uses System, System Security, Engineering that utilize what you own and cultural change will enable you to win, with you.

For the OVL to succeed, it is essential that you take on a culture, regulatory, and other role in the DoD, a standard process that has been utilized to ensure the program and OVL. OVL will ensure you play a major role in the DoD Security, System Security (SS), in coordinating with a common base of information.

1 PHASE 1
System/Function/Security Requirements
System/Function/Security Requirements
• Architecture
• System Description
• Functional Requirements/Description
• System Design
• System Features
• Test Needs (Test/Flow Test)
Standard Acquisition System Engineering Data
Checklist

2 PHASE 2
Collaboration with OVL/SSA
• Review all documents and early draft
• Review documents with OVL/SSA
• Operational Use/Transition
Scope for information needs and outcomes

3 PHASE 3
Execute Fast Track process
• Test Acquisition: Focus on Information Flow and Delivery
• Clearly define Role of Data Format
• Update Requirements for Data
Secure Information Requirements (SIR)

PROGRAM MANAGEMENT
• Facilitate Fast Track management across DoD, Acquisition, Operations & Transition

COLLABORATIVE EXECUTION
• Collaborate with OVL/SSA, ODA, PMA, PMO, S&T, IS&I, Subsystem, Team, enable, Airforce, etc.

ENABLERS
• Single, local ACR for each Strategic System
• Standardized operations and process agility

FAST-TRACK AID PROCESS: WHAT IS IT?
• Provide Fast Track process from a small development
• Provide OVL/SSA OVL/SSA to ensure information dissemination speed of OVL
• Ensure standardization/consistency in information

"The Fast Track process gives OVL the ability to ensure an information dissemination based on a review of the combination of a Collaborative Results, an assessment (e.g., Assessment Tool), and an Information System/Software Readiness Review."

"OVL is essential to ensure consistently informed and demonstrated to working closely with information systems owners and staff/grow to find the appropriate balance between rapid development and standard air force software assessment."

"Fast Track AID is an easy-to-use tool for program engineering and going the right way."

COMMUNITY FEEDBACK

DoD Training - "The training necessary and partnership in the early support/implementation of the program is a DoD/SSA event (needed). I am also implementing this training for all DoD/SSA and need to know what these tools are used in the training community. Just in case, I think it should be for ODA and ODA/SSA. (Fast Track) Team, OVL/SSA, OVL/SSA/Security/Control System, Assessment Tools, Ground Based Mission Database (GMD)

OVL Training - "The training needs to be provided to the Program office. The Fast Track needs to be shared. The responsibility is provided to the necessary documentation to the OVL and the independent role of the OVL needs to be emphasized in the Program. (Dennis Whelan, Program Information System Security Manager (PISSM), Cybersecurity, A-10 Lightning II Joint Program Office)

OVL Training - "My only suggestion would be for the example documentation to be available in more OVL friendly. (Aron Orons, Director of Security (DoS), Standard Threat Systems)

DoD - "I have my detailed work that has been done in terms of information about Standard Ops. I need to have the full set of work in the document, for use for change to actually implement transition. (Brett Fox, Director of the National Security and Intelligence Training, IS)

DoD - "Thank you for the opportunity to review the DoD/SSA/SSA. My overall thought on the document is that it is very user friendly, especially with the 'System Owners'. There is a gap between what you are asking for and what you are asking for. I think you need to ensure the integrity of the questions you would have. (Steven Finkelman - via a letter)

Fast Track - "OVL/SSA/SSA would provide a reply, in which we can see what you can do. I think you need to have the full set of work in the document, for use for change to actually implement transition. (Brett Fox, Director of the National Security and Intelligence Training, IS)

SAMPLE ONBOARDING MODULES

Module 1: DoD/SSA/SSA
• In History
• In History

Module 2: Fast Track
• What is it?
• Background
• Objectives
• Fast Track and OVL

Module 3: DoD
• What is it?
• Role and Responsibilities
• OVL/SSA
• OVL/SSA/SSA/SSA and OVL/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA

Module 4: OVL/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA

Module 5: OVL/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA

Module 6: OVL/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA

Module 7: OVL/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA

Module 8: OVL/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA

Module 9: OVL/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA

Module 10: OVL/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA
• OVL/SSA/SSA/SSA



■ Areas of Responsibility

- AF Authorizing Official Perspective
- Strategic Challenges/Initiatives

Be around the light-bringers,
the magic makers,
the world shifters.

They challenge you,
break you open,
uplift and expand you.

They don't let you play small
with your life.

These heartbeats are your people.
These people are your tribe.

- *Danielle Doby*



Areas of Responsibility (AOR) Perspective across AF Weapon systems

AF Cyber Technical Director AFLCMC/EN

Cyber Security Engineering and Resilience (CSER) Senior Leader.

Technical authority for:

- Security engineering, cyber resiliency and systems, and mission assurance.
- Engineering resilient systems.
- Defensive security engineering.

AF Authorizing Official, SAF/CN

Authorization Boundaries:

- Cloud and DevSecOps.
- Command and Control Systems.
- SAP Command and Control Systems.
- Rapid Cyber Acquisition.
- SAP Rapid Cyber Acquisitions.
- Enterprise IT as a Service (EITaaS).
- SAP Enterprise IT as a Service (SEITaaS).
- F-35 (JSF); Cloud and DevSecOps.
- F-35 ALIS;
- Ground-Based Strategic Deterrent (GBSD); Cloud and DevSecOps.

AF Director, Cyberspace Innovation, SAF/CN

- Innovation thought leadership of risk-based cyber security across the DAF (USAF and USSF).
- Accelerate DAF understanding and mastery of commercial best practices.
- Collaborate across Government, Industry, Allies, and Partners.
- Manage DAF technical standard setting and adoption process.
- Represent DAF/DoD interests in the international standard-setting process.



Authorization Boundary at a Glance: Cross-Section of Air Force Programs

CRC



- 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

E-3



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

cUAS



- EITaaS
- SEITaaS
- RDT&E DREN
- NGAD
- Commercial UAS
- TORCC

TAC-P



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

AOC



Authorizations as of 1 Nov 2021 = 260



- **Areas of Responsibility**

- **AF Authorizing Official Perspective**

- **Strategic Challenges/Initiatives**

Cyber Security
and
Resiliency
is a journey,
not a destination.

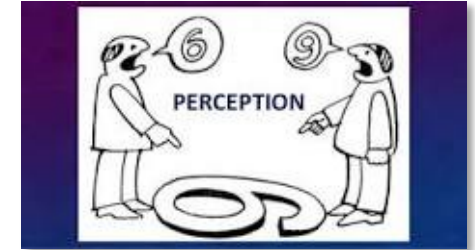
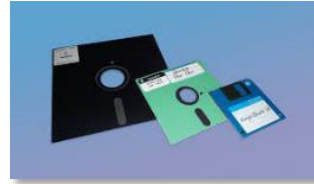
- *D.C. Holtzman*



Culture Change Challenge

Unperceived Bias

“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)



*we accepted the answer "phone" in each case

YouGov | yougov.com

February 23 - March 5, 2018

Do you know the answers to these?

Do you realize your own bias?

Communication is key to culture change.

Change your thoughts and you change your world. – Norman Peale



Authorizing Official North Star: Exercising Agile Risk Management

■ Objectives:

- Render decisions faster: Being Transparent, foster reciprocity;
- Enable Program Managers: More Secure Tomorrow than today;
- **Facilitate risk management: Acquisition, operations, and sustainment.**

■ Enablers:

- Setting clear requirements: AO Determination Briefing;
- Base Risk on Evidentiary analysis and data: Use Standard System Engineering;
- Focus on Risk of Use: Operational-focused with enterprise view.
- **Move to Single AO for each weapon system: Streamline expectations & Seams.**

■ Collaborative Execution:

- Cyber Risk Assessors (CRA) (formerly SCA) focus on assessing risks;
- Authorizing Official informs decision makers on cyber risks;
- **Partnerships with PEOs, DOEs, PMs, users, and sustainers enable holistic view.**

Increase decision-making agility by focusing on risk management.



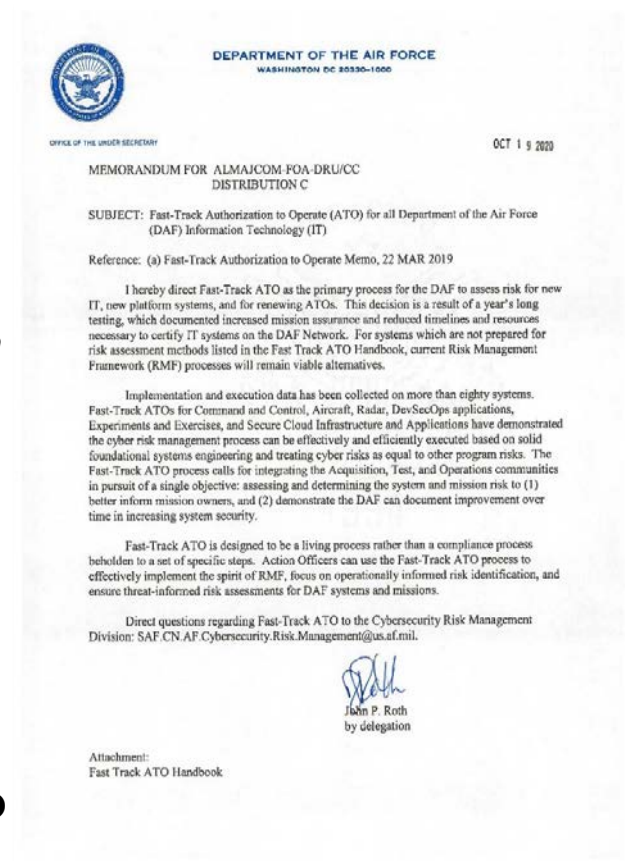
Fast-Track ATO Process: What Is It?

- Not a “new” process: Focus is on risk management.
- Complies with DOD 8510
- Provides AOs the ability to make risk-informed determinations: Spirit of RMF.
- Does not require anything “new” or compliance to a new process.

“The Fast-Track process gives [AOs] the discretion to make an authorization determination based on review of the combination of a Cybersecurity Baseline, an assessment (e.g., Penetration Test), and an Information Systems Continuous Monitoring Strategy.”

“AOs are expected to make operationally informed risk determinations by working closely with information systems owners and warfighters to find the appropriate balance between rapid deployment and appropriate level of risk assessment.”

- Fast-Track is NOT an “easy” button; it requires robust systems engineering and “going slow to go fast.”



Fast-Track is a philosophy of focusing on the Risk of Use vs. compliance.



Cyber Security and Resiliency Enablers: Systems Engineering

- 1. What is the system? What does it do? CONOPS? Missions?**
- 2. What is the system architecture? Weapon system (e.g., aircraft, ground systems, maintenance systems, training systems, etc.)?**
- 3. List hardware (LRU) and software and the providences of each (e.g., supply chain); identify Critical Program Information (CPI), Critical Components (CC); technical orders, and operational procedures. Identify technologies being used.**
- 4. Identify all external communications access points.**
- 5. How does data flow into, through, and out of the system? What type of data? How is it protected? Where does it come from? Where does it go? What is it used for?**
- 6. What threat/intel information is available?**

Establish the baseline from known data.



Cyber Security and Resiliency Enablers: Supply Chain

- 1. Bill of Material (BOM):** As part of the SE process, especially in a legacy system, programs already know all parts (HW and SW).
 - 2. Existing supplier management process identifies source of suppliers, End of Life (EOL) analysis, and alternate-part analysis**
 - Document the “As Is”
 - 3. Is existing criteria, being used by primes and flowed down to subs, known on purchasing of parts?**
 - 4. What is the supply chain mapping? Does one exist already?**
 - Graphical representation of supply chain down?
- **With the data collected from items 1-4 above, review of the potential risks of the supply chain can be done rather quickly at low cost (“As Is/Known”).**
 - **Available intel/threat info can be applied against the list of parts or suppliers identified (or technologies) if known.**
 - **Provide an assessment of risk of the current supply chain:**
 - Better than we have today.

Establish the baseline from known data.



Operation Vulcan Logic Fast Track Implementation: Agile Authorizations



Operationalizing the Fast Track ATO Process



Agile Authorizations: Enabled by Disciplined Systems Engineering

Phase I

- New – Initiation (concept/requirements definition).
- Existing – Operations/Maintenance.

Phase I Inputs

Systems/Systems Security Engineering, Evidentiary Data & Analysis

Phase Roles

- PM
- ISSM

Standard Acquisition Systems Engineering Data

Phase I Outputs

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

- Focus on what is known
- Continue to move forward
- Articulate Risk of Use

Phase II

- AO Determination Brief*
- AO Boundary
- Architectures
- System Boundaries
- Functional Requirements
- Decomposition
- Data Flows
- Technologies
- Previous assessments
- Test results (Red/Blue/Etc.)
- Etc.

Phase II Inputs

Collaboration with AO/CRA

Phase Roles

- AO
- AODR
- CRA
- PM
- ISSM

Scope the assessment criteria and outcomes

Phase II Outputs

- Authorization Path
- Schedule
- MOU/MOA
- Information Technology Categorization and Selection Checklist (ITCSC)*
- Risk assessment and way ahead
- Previous assessments, analysis results
- Operational Use Perspective

- Iterative
- Agile
- Risk Based

Phase III

- Requires solid foundations
- Systems Engineering Up Front
- Life Long Commitment

- Authorization Path
- Schedule
- MOU/MOA
- Information Technology Categorization and Selection Checklist (ITCSC)*
- Risk assessment and way ahead
- Previous assessments, analysis results
- Operational Use Perspective

Phase III Inputs

Execute Risk Assessment

Phase Roles

- AO
- AODR
- CRA
- ISSM

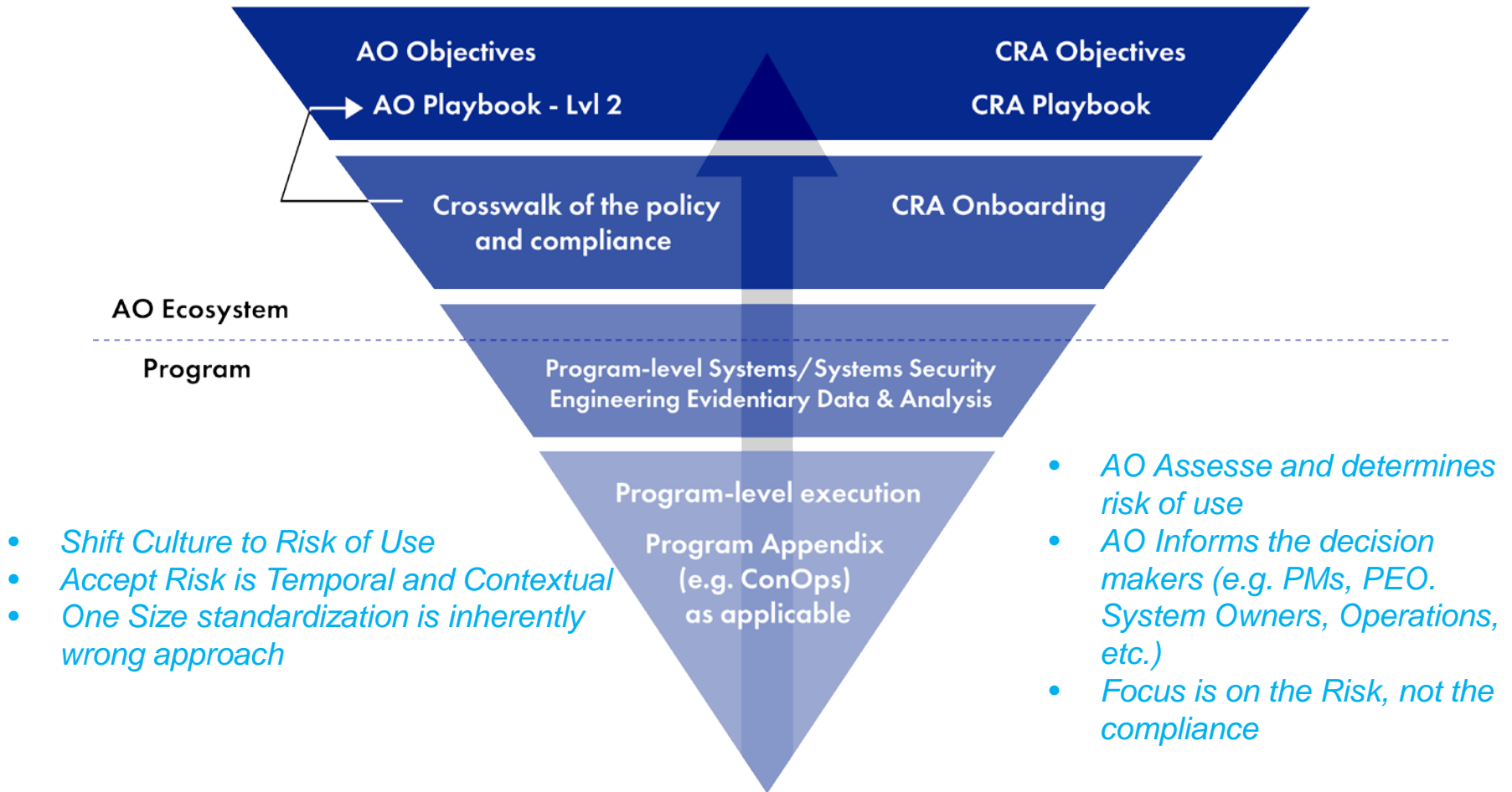
Provide determination briefing to AO

Phase III Outputs

- CRA Risk Recommendation Letter*
- AO Authorization Memo*
- AO Tag-up Brief(s)*



Operation Vulcan Logic: Agile Authorizations Execution NorthStar



The holistic, continuous authorization ecosystem is focused on Risk of Use.

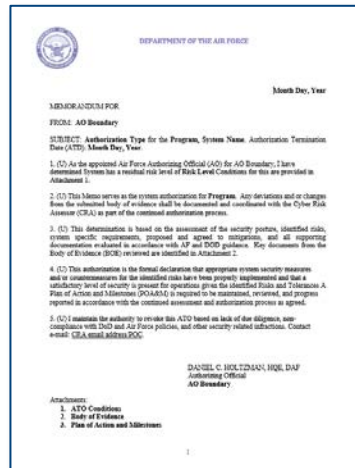


Operation Vulcan Logic Authorization Templates Simple, Effective, Agile

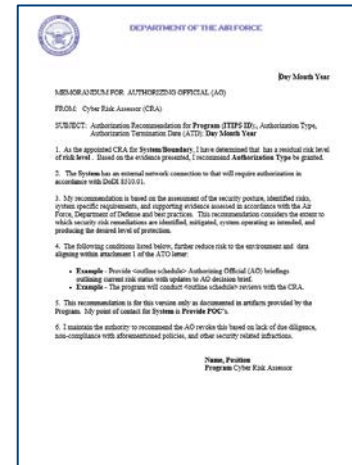
■ Determination Brief



■ Authorization Package



■ CRA Risk Recommendation



- Meets all DoDI 8510 and DAF policy requirements for RMF

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

- Not a work flow or set of “artifacts”

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

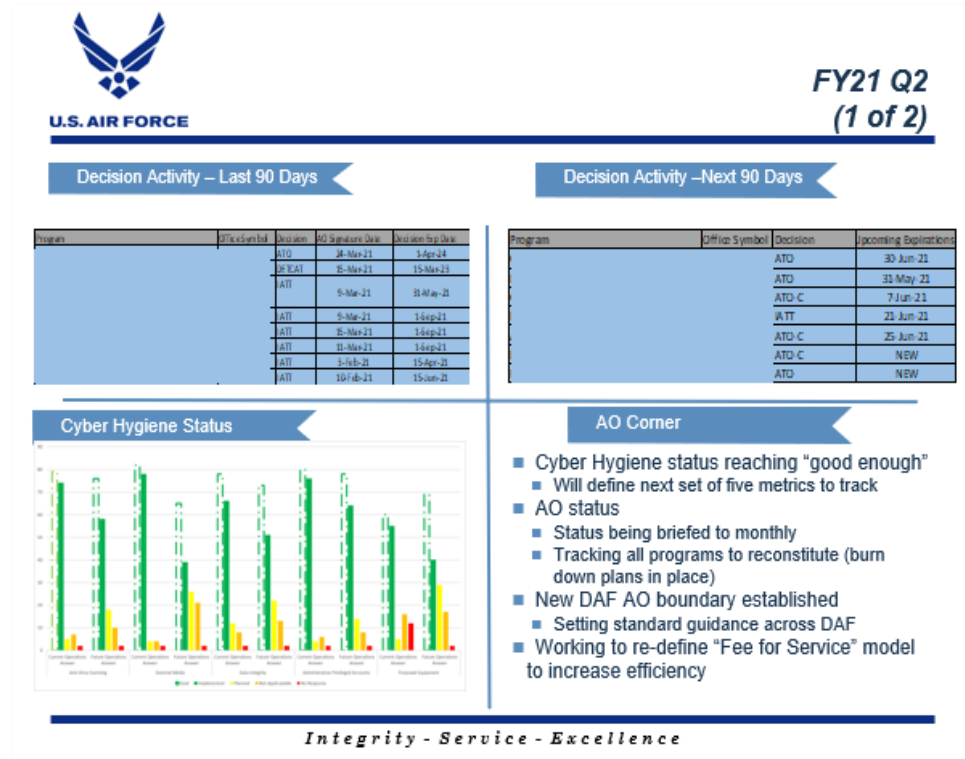
- Provides the AO with an independent Assessment
- Not a one time product, developed over time working hand in hand
- Authorization starts the life long commitment to improving cyber every day

Standardization is flexible for authorization packages: There is no one-size-fits-all approach.



Operation Vulcan Logic AO / PEO Partnership

- AO provides PEO Quarterly Update.
 - Communicate Status.
 - Provides Awareness of AOR items & Challenges
 - Real time changes communicated by exception
- Fosters Collaboration
 - Cross PEO challenges
 - Opportunities for synergies
 - Same Site Picture
- PEO AODR-Assigned:
 - Works for PEO DOE.
 - OPCON to AO.
 - Integrates Cyber into SE/SSE.
- PEO AODRs collect metrics and status.



Model works for PEO "Like" (e.g. COCOMs) as well

Cyber is Commanders Business



Operation Vulcan Logic

Risk Adjudication Process: Cyber is a Commander's Business

- **Authorizing Official (AO) determines risk is high:**
 - **AO communicates with Program Manger (PM):**
 - Agree and mitigate = Stop here.
 - **AO and PM jointly present to the PEO:**
 - Agree and mitigate = Stop here.
 - **AO and PEO present to the Risk Board.**
 - Risk Board: CIO, SAE, System Operational Commander.
 - Risk Board weighs risk, tolerance, mission, and enterprise.
- **Agile, Efficient, Effective.**
 - Informs relevant stakeholders quickly, allows for more informed decisions

Risk of Use communicated to: Acquisition, Enterprise, & Operational stakeholders.



Operation Vulcan Logic Collaborative Partnerships

- **DAF CSO, CAO, CEO, CDO, CIO = Leadership Strategic Alignment.**
- **Air Force and Space Force Collaborations.**
- **AF Authorizing Officials:**
 - Weapon Systems AOs: Reciprocity agreement in place.
 - AFRL AO: Collaborating on Fast-Track ATO and reciprocity.
 - HAF/A4 AO: Collaboration and Reciprocity.
 - AF Innovation AO: Collaboration on DevSecOps and cloud migration.
 - AF Global Strike Command: Collaborating on reciprocity.
 - Enterprise AO: Reciprocity across boundary.
 - AF IC AO: Collaboration on reciprocity; ADSV exemplar.
 - 16th AF AO: Collaboration on reciprocity and the AO process.
 - AF OSI/PJ: Collaboration on reciprocity, sharing of resources.
 - DOD CIO: Reciprocity agreement in place.
- **Industry:**
 - Collaboration via AF/Industry Authorization Round Table.
- **External Agencies:**
 - NSA, National Nuclear Security Agency (NNSA), DHS, DLA, USDA, Army RCO, Army NETCOM, DOJ, Navy, etc.

- **Agile execution based on collaborative partnerships, vice policy, and memos.**

- **Building confidence and trust.**

Cyber Risk is Shared – Contextual and Temporal.



- **Areas of Responsibility**
- **AF Authorizing Official Perspective**
- **Strategic Challenges/Initiatives**

The most dangerous phrase in language is:

“We’ve always done it this way.”

- Admiral Grace Hopper



Strategic Challenges

- **Reciprocity:**
 - The myth of the lowest common denominator.
- **Culture of Compliance:**
 - Compliance masquerading as risk management.
- **Operational Risk Integration:**
 - Risk is temporal and context-sensitive.
- **Command and Control:**
 - Too many cooks makes for bad-tasting chili.



ATO Package of the Future

- **Will document the key items needed for reciprocity:**

- Authorization Memo.
- Attachment 1: Conditions.
- Attachment 2: Body of Evidence.
- Attachment 3: Plan of Action and Milestones.

- **Attachment 1: Conditions**

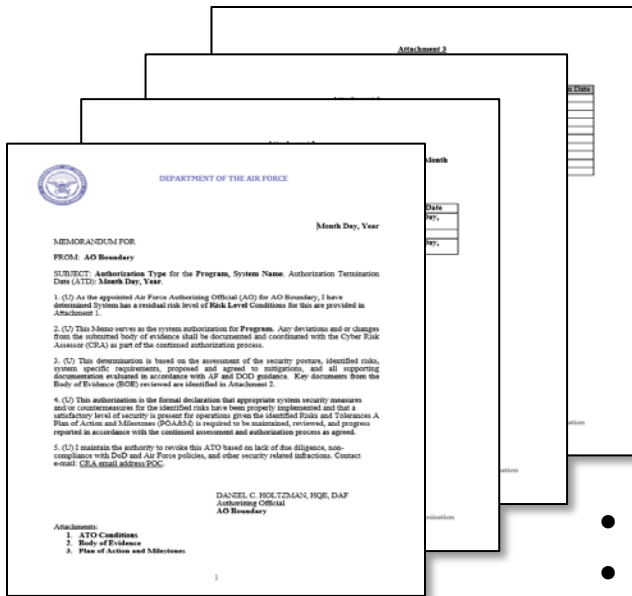
- Documents any conditions on the ATO.
- Security is a journey, never a destination.

- **Attachment 2: Body of Evidence**

- Key artifacts that supported the authorization.
- Informs other AOs and consumers to increase reciprocity.

- **Attachment 3: Plan of Action and Milestones.**

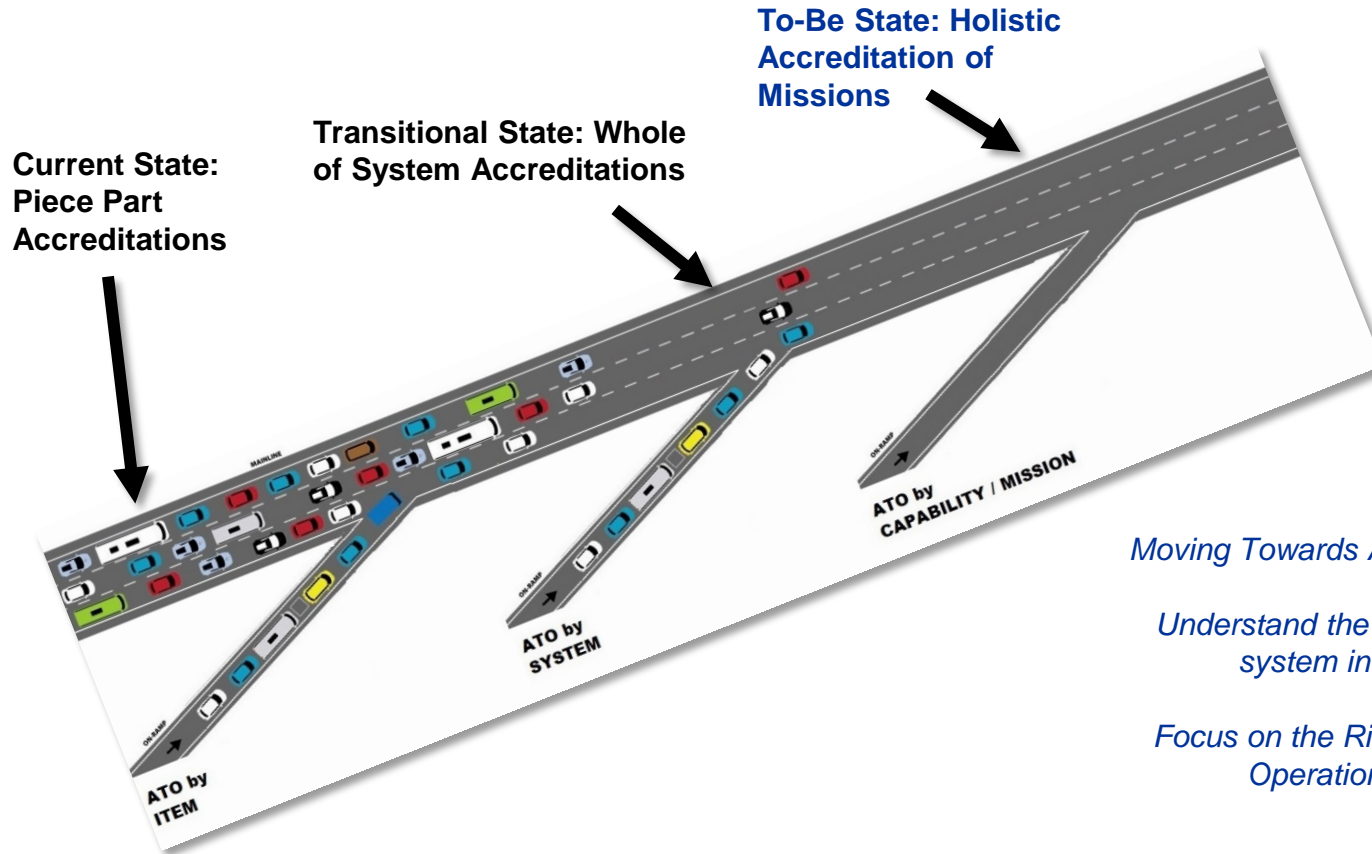
- Can be a Classified appendix.



- *Provided to the requesting consumer as a contract*
- *Documented in enterprise tools (e.g. eMass, XACTA....)*



Highway to Resilient Capabilities



Moving Towards Agile Authorizations.

Understand the Risk of Use of the system in the context.

Focus on the Risk Management in Operational Context.

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



Cyber Tech Order and Continuous Monitoring

- **Cyber Tech Order:**
 - Communicate the “How” to maintain systems for Secure Resiliency.
 - Provide clear operating instructions for users and maintainers.
 - Educate, enable, and execute.

- **Continuous Monitoring:**
 - Recognize that change is constant.
 - New vulnerabilities and threats appear every day.
 - Technology changes.
 - Mitigation effectiveness degrades over time.
 - Integrate Mission Defense Teams into COMMON plans.
 - It is the first line of defense.

1.	Executive Abstract	(1 to 2)
	explanatory paras per bullet – 2 pages max)	
	• Secure and Resilient System Design Overview	
	• Secure and Resilient Operations Overview	
	• Secure and Resilient System Sustainment Overview	
1.	ATO Compliant Execution	(3 paras no more than 1 page + 1 page docs reference table)
	• Managing Operations in Accordance with the System Security Plan	
	• Actions or behaviors that can impact the ATO	
	• Reference Documentation	
1.	Training & Awareness	(Will engage SSR for applicable training references)
	3.1 - Statement that Unit level ISSM/SSO/ Security Officer/ COMSEC Officer responsible for ensuring training and awareness of entire unit.	
	3.2 - Conducting Periodic System/Network Operations Secure Practices Training	
1.	Configuration Control & Patching	(typically an introductory line or two referencing any mandated policy followed by practical tips guiding implementation. Will utilization of Top level instruction and guidance for outlining the unit's responsibility – same format for remaining sections)
	4.1 - Maintaining Configuration Baselines	
	4.2 - Updating for Malicious Code Protection	(anti-virus/malware; code patches; GPOs, TCNOs, TCTOs, etc.)
	4.3 - Performing Configuration and Change Management	
1.	Controlling Identity and Access Management	
	(Top level Statement with Unit level Security Officer/ISSM/Info Owners having first step of responsibility with Physical/Data SAAR access)	
	5.1 - Limiting Access to Authenticated Entities	
	5.2 - Controlling System Access Requirements	
	5.3 - Controlling Internal & Remote System Access	
	5.4 - Controlling and Limiting Physical & Remote Data Access	
	5.5 - Controlling and Limiting Data Access to only Authorized Users and Processes	
1.	Managing Information	
	6.1 - Controlling Communications at System Boundaries (PPS / NOSC / etc.)	
	6.2 - Protecting Auditing/Monitoring Information	
	6.3 - Managing Backups	
	6.4 - Identifying and Marking Media	
	6.5 - Protecting and Controlling Media Storage and Transport	
	6.6 - Sanitizing & Destroying Media	
1.	Continuous Auditing/Monitoring	
	7.1 - Auditing/Monitoring Requirements	
	7.2 - Configuring Auditing/Monitoring for Systems and Networks	
	7.3 - Cyber Health Auditing/Monitoring	
	7.4 - Reviewing and Managing Auditing Logs and Monitoring Tools	
	7.5 - Monitoring Threats	
1.	Incident Response and Reporting	
	8.1 - The NIST Cybersecurity Framework (Identify, Protect, Detect, Respond, Recover)	
	8.2 - Conducting Incident Response Training Exercises	
	8.3 - Identifying Risks and Protecting Capabilities and Services	
	8.4 - Detecting and Responding to Incident and Events	
	8.5 - Reporting a Potential or Declared Incident or Event	
	8.6 - Recovering from an Incident or Event	
	8.7 - Performing Post Incident/Event Reviews	



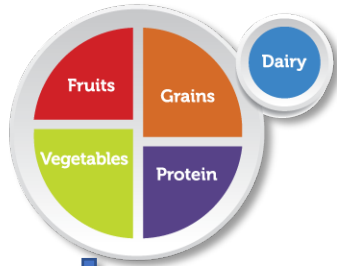
Cyber Risks Facts Label

- **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.





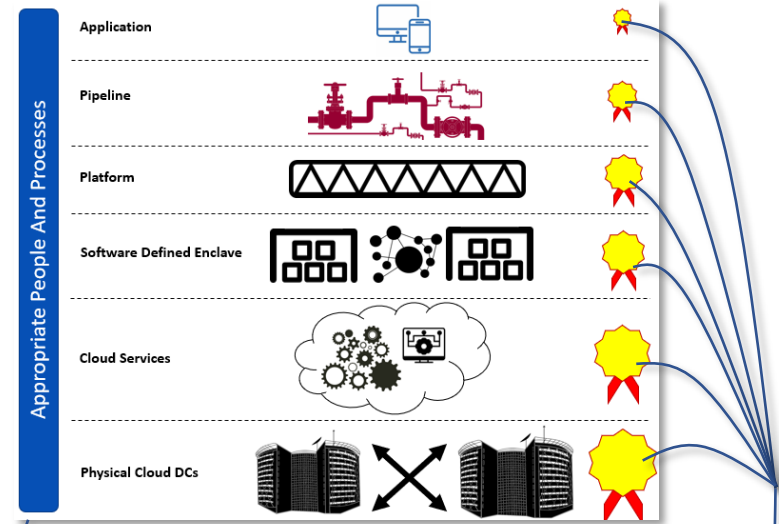
Cyber Risks Facts Label: Allowing for an Informed Consumer



Nutrition Facts	
8 servings per container	
Serving size 2/3 cup (55g)	
Amount per serving	
Calories	230
% Daily Value*	
Total Fat 5g	10%
Saturated Fat 1g	5%
Trans Fat 0g	
Cholesterol 0mg	0%
Sodium 100mg	7%
Total Carbohydrate 37g	13%
Dietary Fiber 4g	14%
Total Sugars 12g	
Includes 10g Added Sugars	20%
Protein 3g	
Vitamin D 2mcg	10%
Calcium 260mg	20%
Iron 8mg	45%
Potassium 235mg	6%

* The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

- 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 Facts	
TOP 5 Operational Cyber Hygiene Areas	
Metrics per report	1 PEO
Completed Risk Assessments	
Percentage	100
% Monthly Value*	
# 1 Anti-Virus Scanning	65%
# 2 External Media	55%
# 3 Data Integrity	45%
# 4 Administrative Privileged Accounts	35%
# 5 Purposed Equipment	40%

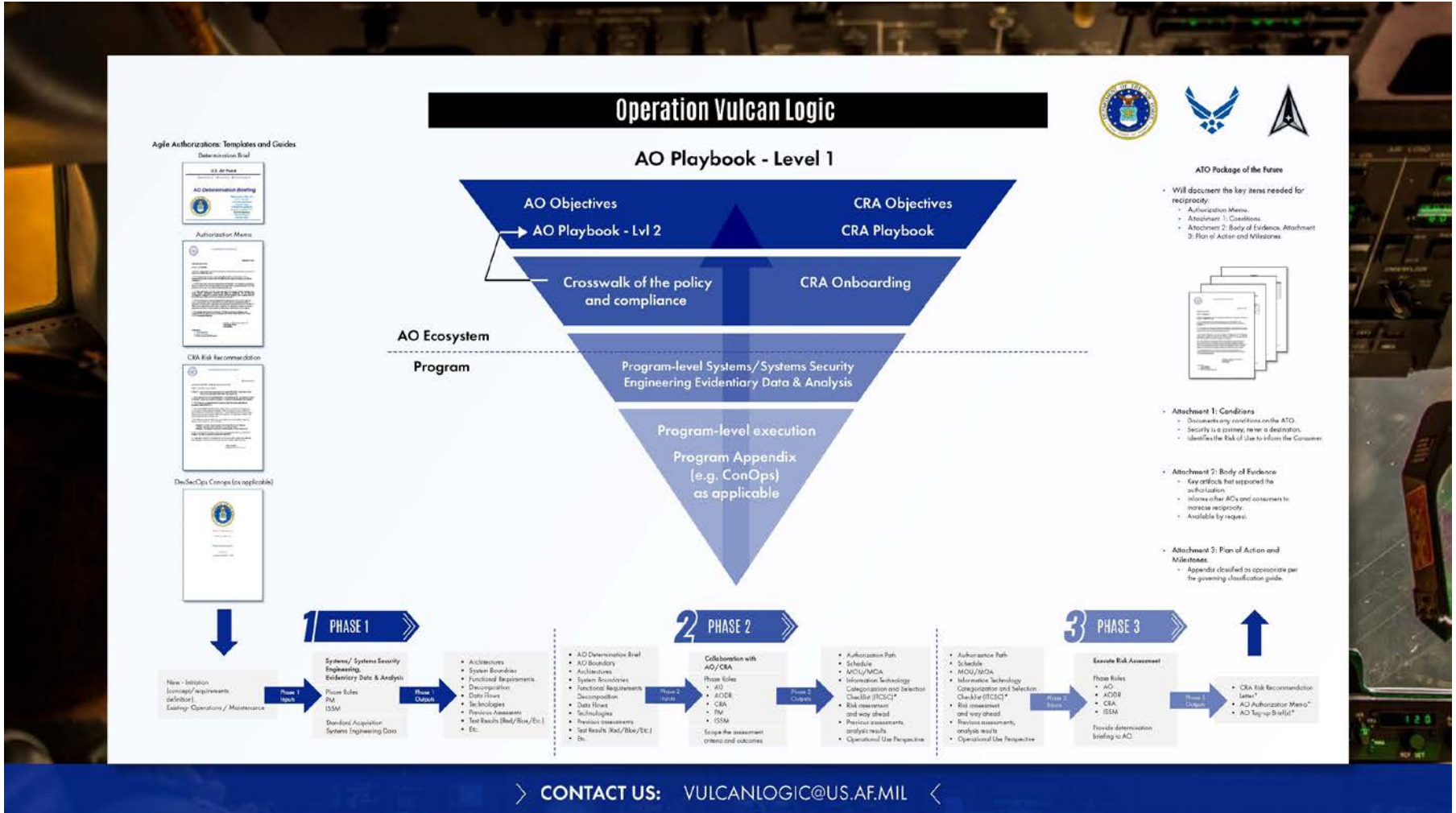
* The % Monthly Value (Mv) tells you how much a PEO has or is willing to accept as risk.

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



Operation Vulcan Logic Summary

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Summary: Keys to Success

■ Assurance:

■ Establish Confidence:

- We have assessed all the most significant risks.
- Authorizations are not the finish line.
- Continuous Monitoring is a key enabler.

■ Reciprocity:

■ Establish Trust:

- We will be transparent.
- Risk tolerance variance is expected.

■ Partnership:

■ Collaborative Risk Assessments:

- Early coordination with stakeholders key to success.
- Includes PEOs, SML/ML/PM, other AOs, other stakeholders (ATEA, TSN), users, industry
- Fast-Track ATO Methodology is a key enabler.



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



Questions and Discussion



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AFRMFKS Published AO Boundary Document Descriptions

- **AO Determination Brief Template:**
 - Brief to assist program personnel in understanding what the Authorizing Official is expecting to see to make an informed risk determination.
- **AO Determination Brief Guide:**
 - An AO determination brief guide has also been created to provide guidance on the completion of the above AO determination brief.
- **AO-Defined Roles and Responsibilities Chart:**
 - Roles and responsibilities for key stakeholders the AO or AO staff will interact with.
- **AO Playbook:**
 - A high-level guide on the AO objectives with Criteria, Observables, and Behavior (COB) expectations and templates used when interacting with the Authorizing Official for authorization determinations.
- **AO Tag-up Brief Template:**
 - Used to provide regular updates on system status to allow the Authorizing Official or Designated Representative to make continuous and on-going, risk-based determinations based on guidance from the Authorizing Official.
- **AODR/CRA Appointment Letter Template:**
 - Used to ensure personnel are directly appointed, in writing, to the roles of an AODR or CRA.
- **Authorization Memo Template:**
 - Leveraged to articulate the authorization determination to stakeholders. After the determination of risk from the operation or use of the information system has been made, this letter is used to inform the System Owner and other stakeholders of the authorization determination along with terms and conditions for the authorization.



AFRMFKS Published AO Boundary Document Descriptions

- **CRA Objectives:**
 - Provides an overall CRA goals and basic introduction to the Fast-Track Agile Authorization process (key steps/documents).
- **CRA Onboarding:**
 - Introduces/defines the tools (documents), websites, roles and responsibilities, engineering phases/outputs, documentation workflow, etc. (what the CRA needs to be successful in meeting the objectives/goals).
- **CRA Playbook:**
 - Outlines the Agile Authorization process, objectives, and step-by-step approach along with the templates used when interacting with the AO for authorization decisions.
- **CRA Risk Recommendation Letter:**
 - Articulates for the CRA the risk recommendation once the risk assessment is complete.
- **DSOP CONOPS:**
 - Addresses the process flows of developed code and software and the people that perform duties within that process flow, covering the hardware/software and the people operating the infrastructure.
- **Information Technology Categorization and Selection Checklist (ITCSC):**
 - Documents the security categorization of the system, including the information processed by the system and represented by the identified information types.
- **No Security Impact (NSI):**
 - Describes the effect on organizational operations, organizational assets, individuals, other organizations, or the Nation (including the national security interests of the United States) of a loss of confidentiality, integrity, or availability of information for an information system.