

# Office of the Secretary of Defense

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*Duty-Integrity-Ethics-Honor-Courage-Loyalty*

## Operation Vulcan Logic (OVL): Risk Management with Agility

**Daniel C. Holtzman**  
Authorizing Official (AO)  
DOD Chief Digital & Artificial Office (CDAO)

Authorizing Official for:  
DOD CDAO;  
JSF F-35 ALIS.

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# Operation Vulcan Logic (OVL)

## Agile, Risk based, AO Ecosystem



### 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.
- 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 all stakeholders enables holistic view.

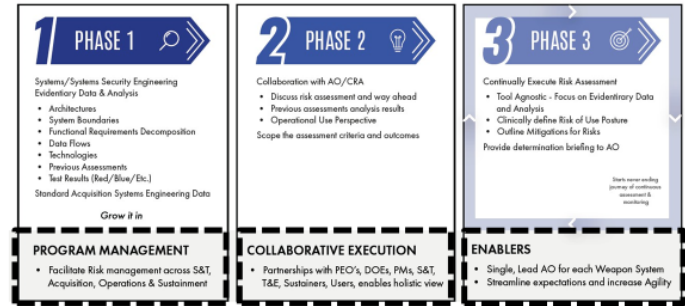
#### Operation Vulcan Logic (OVL):

- Over 2,000 Authorization over six years to provide analytics of success
- Mature Ecosystem to achieve the North Star

- Over 2,000 ATO's
- Analytics support adoption
- Six years of execution
- Implemented across:
  - Aircraft, C2,
  - F-35 ALIS,
  - GBSD/Sentinel
  - Cloud,
  - DevSecOps (cATO),
  - ABMS/JADC2,
  - USAF/AFAFRICA,
  - DIU, ABMS,
  - SAP.....



### Operation Vulcan Logic (OVL) Systems Engineering based Risk Management

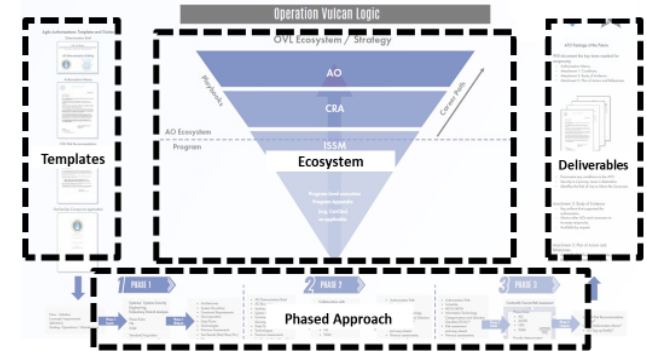


Collaborative effort, standardized format, iterative process

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### Operation Vulcan Logic (OVL) Agile Ecosystem to Enable Success



Providing a Flexible Process to the Risk Management Framework

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### Operation Vulcan Logic (OVL) BLUF



See Handout

Re-Branding to OSD/CDAO  
Mature, Proven, Agile, Risked Based Authorization Ecosystem

**OPERATION VULCAN LOGIC**

Operation Vulcan Logic (OVL) is the operationalization of the DoD best practices.

**1 PHASE 1**

**2 PHASE 2**

**3 PHASE 3**

**PROGRAM MANAGEMENT**

**COLLABORATIVE EXECUTION**

**ENABLERS**

**FAST TRACK PROCESS: WHAT IS IT?**

Over 2,000 ATO's - Six Years of execution - Implemented across Aircraft, C2, Cloud, DevSecOps, USAF/AFAFRICA, DIU, ABMS, SAP.....

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- #### Reciprocity across:
- Services
  - IC community
  - DOD SAP CIO
  - DOD CIO
  - DIU
  - White House
  - COCOMs
  - And more.....

- Training, Education
- And mentorship
- Fee for Service Model
- Scalable, flexible
- AO As A Service

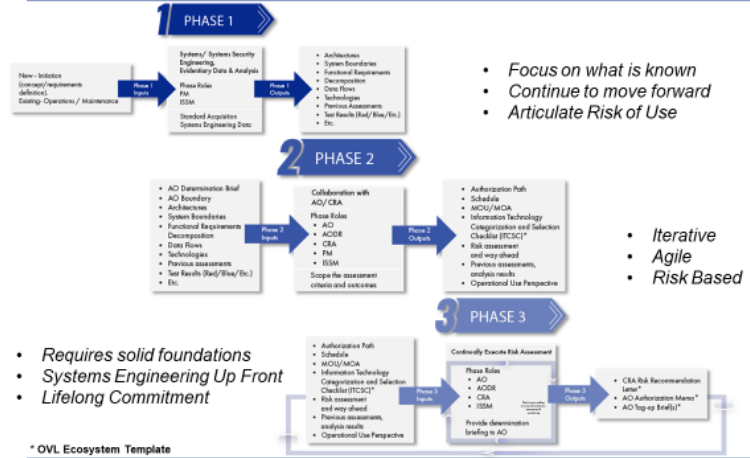


# Operation Vulcan Logic (OVL)

## Agile, Risk based, AO Ecosystem



### Agile Authorizations: Enabled by Disciplined Systems Engineering



### Operation Vulcan Logic Authorization Templates Simple, Effective, Agile



- AO Determination Briefing and Supporting Evidence**
  - PFSM, Scans, STIGs, etc.
  - HAI/SW List
  - SSP/CONOPs
  - ITCSC
  - U.S. Air Force
  - AO Determination Briefing
- CRA Risk Recommendation**
  - PO&EM
  - ITCSC
  - AO Determination Brief
  - DRAFT Authorization
  - CRA Risk Recommendation
- Authorization Package**
  - PO&EM
  - ITCSC
  - CRA Risk Recommendation
  - AO Determination Brief
  - Authorization Memo

**"Minimum Artifacts for Authorization"**

- 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: There is no one-size-fits-all approach.**

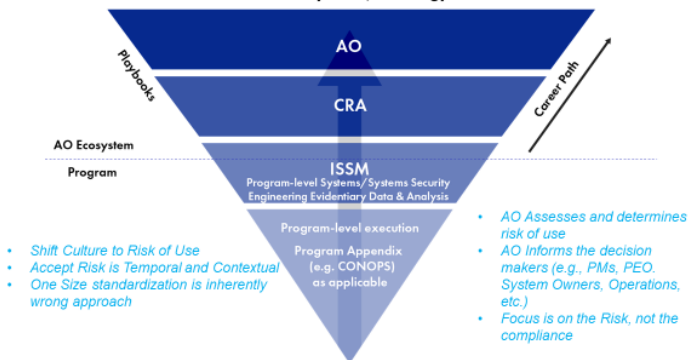
- Meets all DoDI 8510 and DAF policy requirements for RMF
- Authorization Memo has list of BOE that was used to increase reciprocity
- Not a workflow or set of "artifacts"
- Risk Analysis informed by threat/intel, stakeholder tolerance and operational mission parameters



### Operation Vulcan Logic: Agile Authorizations Execution NorthStar



#### OVL Ecosystem / Strategy



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



### Community Feedback Cyber Security is a collaborative effort



- 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 Officer, AFLCMC Det 12, Kessel Run
- 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 board. I am also implementing this training along with the guidance of Rudy and McKay 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, AFNWC/NXZT Security Control Assessor, Assessments Branch, Ground Based Strategic Deterrent (GBSD)
- DevSecOps CONOPS** - "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
- DevSecOps CONOPS** - "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
- "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 SAP Enterprise Information Technology Program Management Office