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## Office of the Assistant Secretary of the Army

### Acquisition, Logistics and Technology



### Modernizing Software Acquisition: Going Agile

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11 OCT 22

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# Army's Software Practice Evolution



## Current Army Challenge:

The capabilities required for the joint fight are software intensive and the Army is not currently delivering in a flexible and timely manner to meet the nation's deterrence needs as an enterprise

## *Desired End-State: Continuous/Flexible*



Frequent, smaller deliveries



## Agile/Iterative process:

- Fast, integrated cycles with incremental capabilities & cyber updates in **days to months**
- Developers & Operators tightly coupled
- Reduced risk and cost while improving quality by finding & fixing defects and vulnerabilities earlier

## Changes to RFPs to enable Agile:

### New Contract Development Strategy may include:

- Product Vision & Roadmap – Focus on desired outcomes, objectives of the product, and general ideas of features and dates
- Requirement for vendors to develop software in an Agile Framework
- Description of the Team Skillsets required
- Requirement to implement a DevSecOps Pipeline

### Proposed Changes to Source Selection and Evaluations

- Leverage tech demos/challenges and oral proposals to assess vendor solutions, reduce B&P cost/cycle time, streamline source selection processes
- Leverage phased evaluations and advisory down-selects to reduce number of proposals evaluated in full
- Assess vendor's ability to:
  - Be agile
  - Deliver quality at speed
  - Operate a DevSecOps Pipeline
  - Incorporate Human Centered Design





# Software Supply Chain Matters



Based on recent high profile cyber incidence and new policies placing an increased importance on securing the software supply chain

ASA(ALT) is considering the requirement of Software Bill of Materials (SBOMs) to enhance its software assurance and improve cyber readiness

Resulting in our ability gain new insights into our software inventory by linking the SBOM data sets with existing Software vulnerability databases such as CVE

## SBOM Facts

16 components in software package	
# of Components Verified	13
Software Grade F*	
Total Issues	
Unexpected Software Behaviors	5
Tamperers with user/account privileges	3
Tamperers with Internet download warnings	2
Active Threats Detected	3*
High risk	2
Medium risk	1
Digital Signature Issues	1
Ineffective Mitigations	0
Sensitive Data Included	0

\*Major supply chain risks detected. Consider this software package unsafe to install and run.

Draft SBOM Contract Language has been developed and seeking industry feedback



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# Questions?