

#### **MOSA**

# PEO Aviation is committed to implementing MOSA

As many are aware, PEO Aviation is committed to implementing MOSA as a core part of how we both acquire systems and manage the fleet of systems to meet the MOSA Objectives and better support the warfighter in the future. This is a complex initiative; so we created the MOSA Transformation Office (TO) to provide leadership and rigor to our approach.

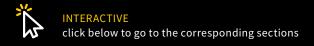
A recent survey revealed that our teammates need additional information to better understand PEO Aviation's MOSA transformation effort and the impact and goals of MOSA.

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MOSA is a top priority that will impact readiness, affordability, and innovation. We appreciate your active support and engagement with the MOSA Transformation Office BG Robert Barrie, Program Executive Officer, Aviation



In this newsletter, we cover four critical questions regarding the MOSA transformation



#### **MOSA**





### What is MOSA?

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MOSA, Modular Open System Approach, is an integrated technical and business strategy for managing and sustaining: a system, a family of systems, and a fleet of systems, that employs modular and open principles and is tailored to meet a particular set of objectives or addresses challenges with existing architectures and/ or acquisitions.

Applying MOSA at the enterprise level fosters collaboration across PMs to drive towards enterprise-wide objectives. MOSA will establish consistent engineering design principles across weapon systems to make components more easily removable, upgradeable, and interoperable.

### MOSA objectives



#### **Enhanced capabilities**

Lower barrier to entry for technology insertions by strategically creating "windows" of capability insertion with defined key interfaces.

#### Reduce supply chain risk

Competitive options, obsolescence mitigations, and simplified logistics tail.

#### **Reduced schedule pressure**

Quicker and more flexible contracting options and reduced repetitive NRE efforts.

#### **Increased readiness**

Increased speed to field, simplified logistics tail, increases cyber resiliency.

#### **Increased affordability**

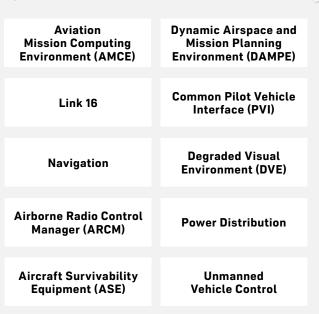
Avoid vendor lock, increase competition, and enable reuse (develop & certify once, deploy many).

#### **MOSA**



#### Enterprise objectives will be driven by application of MOSA principles and through increased PM collaboration on Major System Components (MSCs).

Complex systems are broken down into building blocks called Major System Components (MSCs)



Modularity of MSCs is enabled through making architectural decisions and the application of MOSA standards

These five principles are captured in guidance via the MOSA implementation guide

Establish enabling environment
 Employ modular design
 Designate key interfaces
 Select open standards
 Certify conformance

These initial MSCs are the first set of building blocks to enable PEO Aviation to tangibly implement MOSA

Consistent implementation across PMs will increase effectiveness of MOSA

Note: The MSCs listed above are prioritized for potential in enterprise wide application.







## MOSA has a proven record of success within PEO Aviation and the automobile industry

**CREATING VALUE** 

PEO AVIATION LINK 16

Separate hardware purchases without coordinated buying strategy (CFE vs GFE) GFE AH buys and coordinated hardware purchases for across fleet

Millions in cost savings from future GSA AH-64 buys, Increased AH-64 Enhanced Modem Module (EMM) capability and received ICD through UAS buy

**AMCE** 

One-off platformspecific solutions for mission processing in both legacy and unproven solutions Common solutions set to highest technical standards to meet fleet needs Enhanced capabilities and avoided qualification costs

(FW expected to have millions in cost savings in near-term while achieving greater capability)

**AUTOMOBILE INDUSTRY** 

Bosch joined Honda, Nissan, BMW and Hyundai in the GENIVI Alliance to implement standard open architecture in-vehicle technology with the goal of being quicker and more cost-effective Bosch measured the impact of three generations of implementation and saw program costs reduced ~80% and time to market reduced by ~70%









## What will MOSA mean for you?

Your PM will adhere to specific guidelines related to the MOSA Major System Components (MSCs) that achieve enterprise-wide objectives and introduce new MSCs. All PEO Aviation employees should read the MOSA implementation guide and policy and are encouraged to take the DAU CLE 019 MOSA course.

You should engage with the MOSA Transformation Office (TO) through your PM POC for any guidance related to MOSA initiatives; ideally while drafting documents and strategies.

Accelerating innovation across PEO Aviation





## MOSA TO coordinates efforts across the PEO Aviation

The Transformation Office will oversee implementation of MOSA and coordinate efforts and collaboration across PEO Aviation to ensure success. The TO will serve as a:

Single point of accountability for managing MOSA processes/timelines

Organization to manage and coordinate lines of effort

Ensure the establishment of a MOSA conformance capability

Governance to represent enterprise perspective and avoid stove-piped decision making

Source of leverage for working teams on all matters regarding MOSA

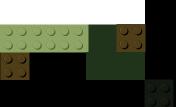
Formal responsibilities of the Transformation Office (TO) are split into four areas:

O1 Governance

Architecture and standards

O3 Conformance

Business and programmatic





The MOSA Transformation Office is here to help PMs implement tailored MOSAs, drive enterprise considerations/investments, path -find new MOSA processes, and serve as a resource for your efforts related to MOSA

Matt Sipe, Director of MOSA transformation

MOSA Transformation Office Key personnel

