



Naval Open Architecture

Changing the Way We Do Business Today



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Imagine a Navy where our systems were **modular...**



...and **affordable** to upgrade



**Could we accommodate
changing technology
and requirements?**

**Could we provide
interoperable capabilities
to the warfighter?**



**Could we build a better
fleet for tomorrow?**



Imagine an environment where our **contracts** were flexible...



Could we **increase competition** to foster innovation?

Could we **share components** across the enterprise?

...and secured the appropriate **data rights**



How will we get there?

OPEN ARCHITECTURE

A multi-faceted strategy providing a framework for developing joint interoperable systems that adapt and exploit open-system design principles and architectures

OA CORE PRINCIPLES

Modular design and design disclosure

Reusable application software

Interoperable joint warfighting applications and secure information exchange

Life cycle affordability

Encouraging competition and collaboration

Open Architecture is our path forward!



How will we change?



OA Vision

We must transform our organization and culture and align our resources to adopt and institutionalize open architecture principles and processes throughout the Naval community in order to deliver more warfighting capabilities to counter current and future threats

Align

- Align Requirements and Acquisition Communities
 - Align Domains across the Enterprise and with Joint Services
 - Align Industry and Academia Partners
- ...to OA Vision*

Share

- Share products and assets across the enterprise
- Share knowledge and ideas through communities of interest
- Provide easy access to products through government data rights

Collaborate

- Reduce risk thru end-to-end collaborative experimentation
- Harmonize standards and guidance
- Reduce T&E expenses through common modular designs and standard interfaces



What will our leaders require from us?



Commitment & Dedication

- Commitment from all organizations to implement OA
- Dedicated change agents across the enterprise to implement OA

Innovation & Change

- Innovate the way we do business and change our culture to adopt and institutionalize OA
- Break down barriers to build affordable systems

Accountability

- Hold MPMs, Contracts, and Legal accountable for incorporating OA principles into acquisition
- Hold OPNAV accountable for funding closed systems

Execution

- Incorporate OA guidance into contracts and negotiate appropriate data rights
- Make informed OA investment decisions

Continuous Improvement

- Work across boundaries to identify common solutions
- Share ideas and knowledge through communities
- Build off lessons learned to forge ahead



What will we require from Industry?

Innovation

- New products and services
- Changes in business models and cultures to meet the Navy's needs

Collaboration

- Work with Navy and third parties to implement OA
- Share access to products
- Share ideas through community of interests

Componentization

- Define component and system interfaces
- Identify and evaluate existing components that can be reused

Justification

- Justify the use of proprietary, vendor-unique or closed components or interfaces
- Justify the need for restrictive data rights

Education

- Train business and technical employees on OA
- Provide feedback to the Navy on lessons learned, success stories, and best practices



"The nation's ability to mount an effective military ultimately depends on the discipline and skills of its people and the productive capacity and creativity of its economy."

Former Assistant Secretary of Treasury,
Sid Jones, Public & Private Economic Advisor, 2000. P.106.

Open Architecture ...Changing the Way We Do Business Today!



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