

Modular Open Systems Approach – Competitive (MOSA-C)™

Delivering the Full Value of Open Systems Approaches and COTS

- Reduces cost in all program phases
- Provides an enduring open architecture, maximizes the use of COTS products
- Keeps competition alive throughout the fielding and sustainment phases
- Accomplishes tech refreshes and cutting edge technology insertion at the lowest possible cost
- Maps to the U.S. Department of Defense (DoD) acquisition process
- Expands on the DoD and commercial principles of modular open systems architecture
- Takes full advantage of commercial technology investment

*Northrop Grumman is meeting the
goal of DoD Today!*

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▼ Modular Open Systems Approach – Competitive (MOSA-C)™

Making MOSA a reality for the 21st century

For more information, please contact:

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The Challenge

Traditional proprietary and open architecture approaches have failed to deliver cost savings even though they have increased the use of COTS.

The challenge is once COTS items are integrated, vendor “lock-in” can occur and opportunities for competition and refresh are lost. Furthermore, integrators often “wrap” COTS with proprietary or custom software and hardware, leading to a “restricted” open system, thus requiring the customer to be reliant on a single company for upgrades and modifications. These issues drive up acquisition and life-cycle costs.

MOSA-C™ changes this.

Northrop Grumman’s Modular Open Systems Approach – **Competitive (MOSA-C)™** provides an innovative strategy that uses COTS technology and open architecture to reduce acquisition and Total Ownership Cost, while enabling the ability to rapidly insert cutting edge technology as it evolves.

An Innovative Approach.

With MOSA-C™, Northrop Grumman has established the enabling environment and implemented a unified business and engineering approach to *fully achieve* the benefits of open systems approaches over the entire program life cycle.

MOSA-C™ delivers an open, enduring, model-based architecture!

With *Vendor- and product-neutrality*, this approach enables continual competition throughout the program life cycle, and in turn, allows the customer to take advantage of more cost-effective COTS technology across its life cycle.

MOSA-C™ takes full advantage of the lessons learned from the Navy’s first and second generation COTS and open architecture initiatives.

MOSA-C™

“Making MOSA a Reality for the 21st Century”

MOSA-C™

Enabling Environment

Modular Open Systems Approach:
The Fundamental Building Block of Joint Integrated Warfare Systems

Modular COTS Design



- Increased Competition
- Lower Costs
- Lower Risks
- Rapid Technology Insertion
- Enabling Joint Integration

Architecture Solution Validation

Rapid Prototyping

Trade Studies

Architecture Solution Design & Modeling

Mission Needs and Systems Requirements

Process Driven Solutions

Cyber Hardened

Open Standards