



Purpose

To Brief Our Integrated Plan for Introducing Open Architecture (OA) Across the Navy Enterprise



Why Open Architecture

Business

- Today's In-Service Computing Architectures are Unaffordable
- Each Ship Class Addressing the Problem Uniquely
- Replacement of Obsolete Hardware Fact of Life
- Commercial Industry has Already Embraced Open Architecture Approach

Technical

- Current Surface Ship Computing Systems Have Been at Performance Capacity for Years
- Current Computing Architectures Limit Capability Increase
- Warfighting Concepts to Warfighting Capability Takes on the Order of 5 Years to IOC
- Computer Throughput and Speed Requirements Dictate use of Commercial Computing Technologies and Modern Software Languages

Improved Warfighting Capability Depends on Open Architecture



Open Architecture

What Does It Mean...

Operationally

- Provides Joint Interoperability
- ✓ Enables Sea Power 21and FORCEnet
- ✓ Enables Effective Employment of Global Information Grid
- ✓ Increased Capabilities and Performance

Programmatically

- Streamlined Software Development / Maintenance
- ✓ Faster "Time to Market"
- ✓ Facilitates COTS Refresh / Technology Insertions
- ✓ Broader Industrial Base

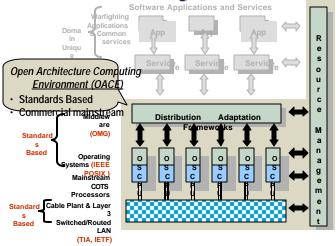
Affordability

- ✓ Potential for 4-to-1 Reduction in Common Software Development and Maintenance Efforts
- ✓ Reduces Costs for Testing / Certification
- Enables Manning Reductions

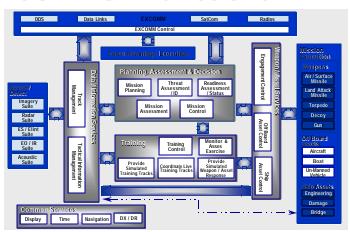


Underpinning of the Enterprise Approach

Common Navy Technical

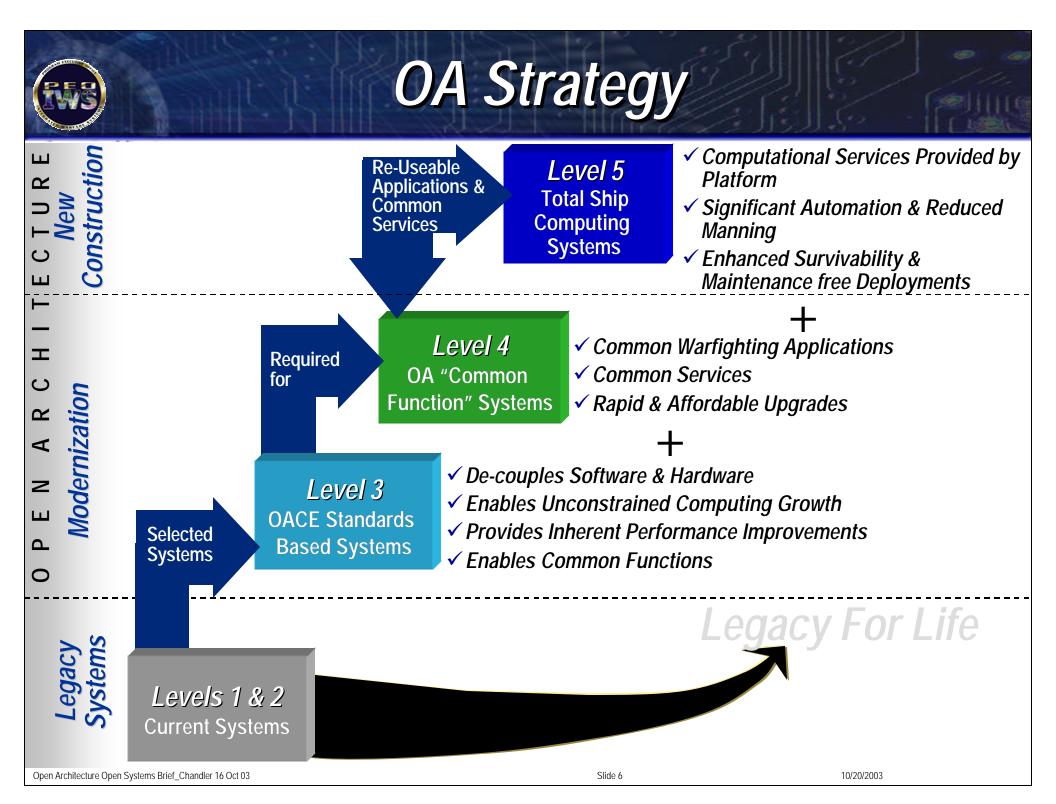


Common Functional



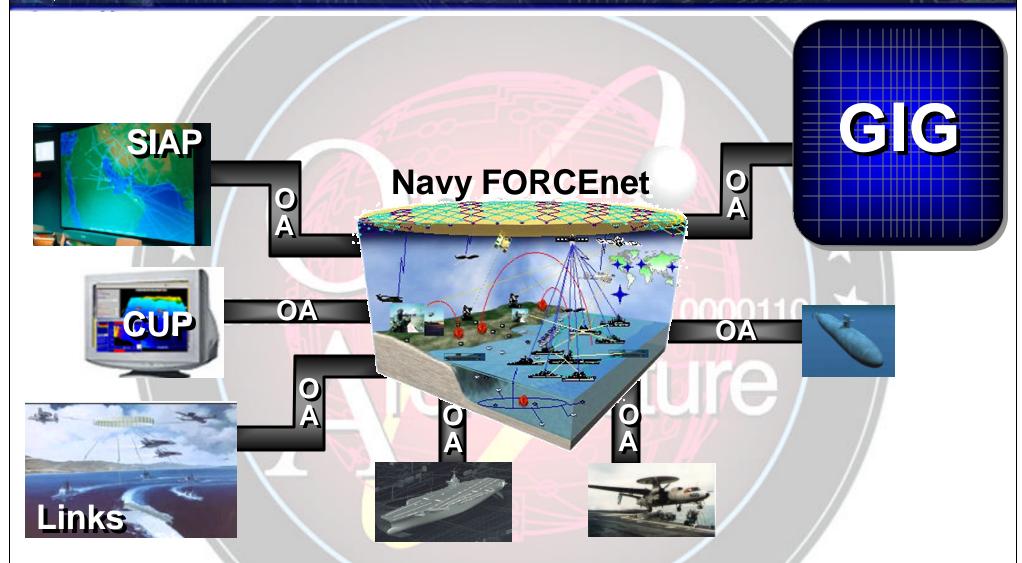
- International Standards Based Computing Environment
- Decouples Computing Environment from Software Applications
- Enables Common and Reusable Software Applications
- Affordable Technology Refresh
- Accelerated Deliveries of "Software Based" Warfighting Improvements

Significant Savings in Development & Life Cycle Costs





OA is required for the Future.....



Open Architecture is Fundamental Enabler to Future Warfighting