## AEGIS Baselines

### MIL-SPEC
- **BL 3A/5** BMD 3.6/4.0
  - AW (5): CG63-64, DDG 57, 66, 74
  - BMD (29): CG 61, 67, 70, 72, 73
  - DDG 51, 52, 54-56, 58-63, 64, 65, 67-73, 75-77

### HYBRID
- **BL 6**
  - AW (18): CG 59, 65, 66, 68, 69, 71
  - DDG 79-90

### COTS
- **VME Architecture**
- **Server Architecture**

#### BL 7
- AW (22): DDG 91-112

#### BL 8
- AW (7): CG 52-58

#### BL 9
- AW (4): CG 59, 60, 62, 71
  - IAMD (12) DDG 51-53, 57, 65, 69, 113-118
  - AEGIS Ashore BMD (2)

### Area AW
- **SRBM, MRBM, Limited IRBM**

### Area AW CEC
- **Littoral Radar Ultra-Low Threat**

### IAMD Littoral Radar Ultra-Low Threat
- **COTS Hardware**
- **Open Architecture**
- **Software**

### Legacy MIL-SPEC Computers
- **Ballistic Missile Threats**
- **BMD Capability Enhancement**

### Situational Awareness
- **ASCM Complexity & Proliferation**
- **Battle Group Networks (Link-15, CEC)**

### Improved Area Air Defense
- **Simultaneous Raids Across Multiple Mission Areas**
- **IAMD, NIFC-CA, BMD 5.0, AEGIS Ashore**

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Supporting Capacity Requirements
Combat System Wholeness

Maintainability, Supportability, Sustainability

- Fleet Readiness Initiatives
- In-Service Computer Program Maintenance
- AN/SPY-1 RM&A
- CNO Pre-Assessments and Grooms
- Increased Onboard Sparing
- Forward Deployed Engineers

Interoperability

Manpower, Personnel, Training

Fleet Proficiency
AEGIS Baseline 9 (BL 9)

<table>
<thead>
<tr>
<th>Air Dominance CG</th>
<th>IAMD DDG</th>
<th>New Construction</th>
<th>AEGIS Ashore</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Modernized Cruisers</em> (CG 59, 60, 62, 71)</td>
<td><em>Modernized Destroyers</em> (DDG 51, 52, 53, 57, 65, 69)</td>
<td><em>New Destroyers</em> (DDG 113-118)</td>
<td><em>AEGIS Ashore</em></td>
</tr>
</tbody>
</table>

**Capability:**
- NIFC-CA
- SM-6
- AMIIP Interoperability Improvements

**NIFC-CA**
- SM-6
- AMIIP Interoperability Improvements
- Integrated Air and Missile Defense (IAMD)
- BMD 5.0/5.0 CU, SM-3 Blk IA, IB

**Baseline Reduction Through AEGIS Common Source Library**

<table>
<thead>
<tr>
<th>BL 9A Computer Program</th>
<th>Code Reuse 97%</th>
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</thead>
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<tr>
<td>Development Demo ALO At-Sea DTICSSQT Cert OT</td>
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AEGIS Common Source Library (CSL) REUSE within Baseline configurations

Common Source Library

Key Elements of Common Development:
- Common Mission Capabilities
- Single Set of Specifications
- Common Program Plans
- Single Set of Processes & Metrics
- Integrated Team Structure
- Enterprise Products

“Fix it Once”

- Open Standards-based Designs
- Componentized Architecture
- Well-Defined Interfaces
- OA Foundation

AEGIS / MDA AB Cross Program Governance
In Place to Coordinate Multiple Programs Using CSL
**TI 12 to TI 16 Evolution**

**Reduced Footprint with Increased Processing & Storage Margin**

### AEGIS TI 12 Equipment Suite

- ALIS
- ACEG
- IOP
- CPS (6)
- Remote CEM
- DPC (4-5)
- DDS
- DiVDS
- SVS
- VCMT (18-23)
- CDS (18-23)
- DCU (18-23)
- Printer

### AEGIS TI 16 Equipment Suite

- ALIS
- ACEG/IOP (CONSOLIDATED)
- AWS CPS (REDUCED, MCE)
- Data Storage
- New Function
- ACS CPS
- Remote CEM
- DPC (Eliminated)
- DDS (MCE)
- DiVDS (MCE)
- SVS
- VCMT (18-23)
- CDS (18-23) (INTEGRATED DCU)
- MMD
- TCD
- Printer

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**The TI 16 Footprint Reflects Efficiencies Gained from COTS Advances**

*(Reduction from 22 cabinets in TI 12 to 14 cabinets in TI 16)*
AEGIS
Maintaining the Cornerstones of Excellence

◆ AEGIS is key to Joint IAMD Fight at Sea, Ashore and Over Land

◆ AEGIS Wholeness is restoring the foundation of AEGIS

◆ AEGIS is Modernizing our Multi-Mission Surface Combatants with Open Architecture and Modern COTS Processing & Displays
  - CGs 52-58 Modernized with AEGIS Baseline 8
  - USS Chancellorsville (CG 62) - Lead Ship for Baseline 9 Air Dominance
  - USS John Paul Jones (DDG 53) - Lead Ship for Baseline 9 IAMD

Maintaining Systems Engineering Excellence and AEGIS Cornerstones

REACTION TIME - FIREPOWER - COVERAGE

ECM AND ENVIRONMENTAL RESISTANCE
CONTINUOUS AVAILABILITY