Addressing the ASuW Capability GAP:
An Acquisition Perspective

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PM, Precision Strike Weapons
28 October 2009
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Required ASuW Weapon Attributes

- Long Range (> 200 nm)
- Survivable
  - Stealth/ECM
  - Speed
  - Maneuver
  - Passive
- Targeting
  - Autonomous Target Classification/Identification
  - In flight Updates
  - All Weather
- Responsive
- Lethality – Warhead & Aim Point Selection
- Platform Compatibility (VLS, Air)

The ASuW Problem...

ASuW Capability Gap
Current/Future ASuW Capabilities

Network

Current

Target

Near Term

Long Term
• Acquisition timeline pressurizes realistic capability gap solutions

• DoD ASuW requirement not formally approved/validated

• DoD FYDP budget constraints influence material solution options

• Upgrade/modify current capabilities versus pursuing the next generation solution
ASuW Strategic Capability Options (FY12-20)

USN ASuW Capability

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**Upgrades**
- Air Launched
  - Anti-radiation seeker integration
  - Surface threat Automatic Target Recognition (ATR)
  - Aim Point Selection
  - Extended Range – Hi-Lo profile
  - ECM
- Upgrade SLAM ER/JASSM/JSOW ER

**Address Long-term Threat Maturity**
- Ship Launched - VLS
  - Multi-mode seeker integration
  - Surface threat Automatic Target Recognition (ATR)
  - Aim Point Selection - Precision Targeting
  - ECM
- Upgrade Tomahawk
- Next generation ASuW Weapon
- Multi-mode seeker integration
- High Speed – Survivability, Improved Responsiveness
- Range >>200 NM
- Robust OTH Datalink – Network enabled (MIDS-JTRS waveform)
- SATCOM
- Surface threat Automatic Target Recognition (ATR)
- Aim Point Selection - Precision Targeting
- ECM

**Proposed Technical Solutions**
- ARH sensor
- ASuW ATR Algorithms
- Adv. Multi-mode seeker
- ECM
- Afford High Speed Propulsion

**R&D Needs**
- MIDS-JTRS datalink
- SATCOM datalink
- Other OTH Datalinks

**Future POM Issues**
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### Next Generation ASuW Weapon “AoA to MS-B”

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#### Acquisition
- **JCIDS**
- **Material Solution Analysis**
- **Technology Development**
- **Final Draft to Staff**
- **MSA**
- **MSB**
- **CDD**
- **MDD**
- **AoA**
- **ICD**
- **Gate 1**
- **Gate 2**
- **Gate 3**

#### Gate Review
- **Gate 1**
- **Gate 2**
- **Gate 3**

#### Technical
- **ITR**
- **ASR**
- **SRR**
- **SRR II**
- **SFR**
- **PDR**
- **ILA Prep**
- **ILA**

#### Logistics
- **Cost Estimate**
- **CARD**

#### Contracts
- **BAAs**
- **Draft RFP**
- **Contract Awards**
- **TD Contractor 1**
- **TD Contractor 2**
- **Down Select**
• Multiple ASuW Gap Efforts underway across DoD/Industry

• DoN ASuW AoA critical to scoping/defining requirement

• DoN/Industry cooperation provides best timely solutions

• Leveraging S&T investments key to “right sizing” capability attributes

• Phased ASuW solution with “near term modifications” coupled with “dedicated new investment” for next generation ASuW capability