SEAL Delivery Vehicle (SDV MK8)

Wet Submersible Capable of Clandestine Operations and Insertion/Extraction of 6 SEALS and Mission Equipment in a Hostile and/or Denied Environment

Technology Upgrades/Current Efforts:
– Improved Onboard Computer Systems
– Increase Sonar Capability
– Increased Battery Endurance
– Diver Thermal Protection
Dry Deck Shelter (DDS)

Certified Diving System That Attaches to Modified Host Submarines and Supports SDV, Combat Rubber Raiding Craft and Mass Diver Lock In/Out Operations While Submerged

Technology Upgrades/Current Efforts:
- 15 Year Service Life Extension Study
- Next-Generation DDS Study
- Improved Track and Cradle System
- Modifications to Support Shallow Water Combat Submersible (SWCS)
Surface Mobility Systems

- Amphibious Ships
- Maritime Support Vessel
- Joint High Speed Vessel
- Littoral Combat Ship

- Naval Special Warfare Rigid Inflatable Boat (NSW RIB)
- Combatant Craft Medium
- Non-gasoline Burning Outboard Engine (NBOE)
- MK V Special Operations Craft (MK V SOC)
- Special Operations Craft Riverine (SOCR)
- Combat Rubber Raiding Craft (CRRC)

CCFLIR
ROSAM
MK V Special Operations Craft (MK V SOC)

Medium Range Insertion and Extraction of SOF in Low to Medium Threat Environment. Also Supports Limited Coastal Patrol and Interdiction Missions

Technology Upgrades/Current Efforts:
- Shock Mitigation Technology
- Navigation Computer Upgrades
- Rover IV – Remote Operated Video Enhanced Receiver Integration
Naval Special Warfare Rigid Inflatable Boat (NSW RIB)

Short Range, Ship-to-Shore Insertion/Extraction of SOF Personnel in a Low to Medium Threat Environment

Technology Upgrades/Current Efforts:
- Integration of Improvements to Combatant Craft Forward Looking Infrared
Special Operations Craft Riverine

Short Range Insertion and Extraction of SOF and Waterborne Special Reconnaissance in a Riverine and/or Littoral Environment

Technology Upgrades/Current Efforts:
- Advanced Lightweight Armor Protection
- Integration of Improvements to Combatant Craft Forward Looking Infrared
Non-Gasoline Burning Outboard Engine (NBOE)


Technology Upgrades/Current Efforts:
- Block 1 – 55 HP Multi-Fuel Engine
- Block 2 – 30 HP Multi-Fuel Engine
- Block 3 – 30 HP, Light Weight, Submersible, Multi-Fuel Engine
Technology Upgrades/Current Efforts:
– Software Upgrades to Reduce Display Clutter/ Enable all Output Protocols/Improved Tracker Function
– Implementation of Joy Stick Control Unit (All NSW Craft)
– R&D Efforts: 360 Degree Situational Awareness/Larger Focal Plane Arrays/Multispectral Arrays
– Integration with ROSAM to Improve User Interface
Competitive Acquisitions

Near Term:
• Dry Combat Submersibles
  – Fill the Requirement for a Dry, One Atmosphere, Diver Lock-Out Submersible
• Shallow Water Combat Submersible (SWCS)
  – Replacement for SEAL Delivery Vehicle
• Dry Deck Shelter Extension
  – Supports Future Dry Combat Submersible Effort
• Combatant Craft Medium (CCM)
  – Partial Replacement for Naval Special Warfare Rigid Inflatable Boat and MK V SOC

Mid-Term:
• Special Operations Craft Riverine Replacement
  – Replaces Existing Riverine Craft
• Combatant Craft Forward Looking Infrared (CCFLIR) System
  – Replaces Existing CCFLIR System
• Security Forces Assistance (SFA) Craft
Dry Combat Submersibles (DCS)

- Manned, Dry Combat Submersibles that Provide a Clandestine Mobility Platform for SOF
- Will Leverage Proven Sub-Systems and Equipment from ASDS, SDV, and SWCS
- Rapid Competitive Prototyping to Refine Technical Requirements and Reduce Risk

**Acquisition Strategy**
- BAA for Rapid Prototyping
- Multiple Contract Awards
- BAA Release Planned for 4th Qtr FY11

**Period of Performance**
- FY-11-FY14

**Milestones**
- Milestone A in 3rd Qtr FY11
- Milestone B in 2nd Qtr FY14

**Point of Contact**
- USSOCOM PM Undersea Systems
  813.826.3193

**Funding**
- TBD

**Current Contract/OEM**
- TBD
**Shallow Water Combat Submersible (SWCS)**

- Family of Manned Submersibles with an Evolutionary Acquisition Approach with Enhanced Capabilities to Conduct SOF Insertion and Extraction in Hostile and/or Denied Environments

- SWCS Block 1 is a Wet Combat Submersible that will Replace the SEAL Delivery Vehicle Mk VIII Mod 1

### Acquisition Strategy

- Full and Open Competition
- RFP Released Mar 2010
- Two Phase 1 Contracts Awarded Oct 2010
- Down-select Contract Award in 3rd Qtr FY11

### Period of Performance

- FY11 through FY16

### Milestones

- Milestone B in 4th Qtr FY10
- Milestone C in 1st Qtr FY14

### Point of Contact

- NAVSEA PMS-NSW, Washington Navy Yard, DC
- USSOCOM PEO-Maritime
- 813.826.9509

### Funding

- TBD

### Current Contract/OEM

- Teledyne-Brown Engineering
- The Columbia Group
Dry Deck Shelter Extension (DDS)

- The Dry Deck Shelter Extension (DDSX) is an ~ 50 Inch Extension Modification to the Current DDS System with Additional Design Modifications to Accommodate the SWCS Block 2 Dry Submersible Also Known as the Dry Combat Submersible Light.

**Acquisition Strategy**
- Full and Open Competition for 4 Systems
- Draft RFP to be Released Jul 2011
- RFP to be Released Oct 2011
- Down-select Contract Award in 4th Qtr FY12

**Period of Performance**
- FY11 through FY16

**Milestones**
- Milestone B in 2nd Qtr FY12
- Milestone C in 4th Qtr FY14

**Point of Contact**
- NAVSEA PMS-399, Washington Navy Yard, DC
- USSOCOM PEO-Maritime 813.826.1975

**Funding**
- TBD

**Current Contract/OEM**
- Oceaneering International Inc.
## Combatant Craft Medium (CCM)

- Multi-Role Surface Combatant Craft with the Primary Mission to Insert and Extract SOF in Medium Threat Environment
- USAF C-17 Transportable, Crew of 4 and Capable of Transporting 14-19 Passengers
- Partially Replaces Naval Special Warfare Rigid Inflatable Boat Capabilities and Approaches the Payload and Range of MK V Special Operations Craft

<table>
<thead>
<tr>
<th>Acquisition Strategy</th>
<th>Period of Performance</th>
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<tbody>
<tr>
<td>Full and Open Competition</td>
<td>Contract Award in FY11 with a 10 Year Period of Performance</td>
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<td>Requirement for 30 craft</td>
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<tbody>
<tr>
<td>USSOCOM SORDAC, Combatant Craft Medium Program Management Office 813.282.8795</td>
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<thead>
<tr>
<th>Current Contract/OEM</th>
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<tbody>
<tr>
<td>N/A</td>
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</table>
### Special Operations Craft Riverine Replacement (SOCR)

- **Riverine Surface Craft with the Primary Mission to Insert and Extract SOF Forces**
- **Secondary Mission of Reconnaissance and Surveillance**
- **SOCR Replacement will Use Present Technology in Terms of Hull Structure, Power Train, On-Board/Off-Board Sensors, and Armor to Increase Current Capabilities**

<table>
<thead>
<tr>
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<th>Milestones</th>
<th>Point of Contact</th>
<th>Funding</th>
<th>Current Contract/OEM</th>
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</thead>
</table>
| ▪ Full and Open Competition  
▪ Projected Requirement for 24 Systems | ▪ FY14 through FY19 | ▪ TBD | USSOCOM SORDAC, Combatant Craft Medium Program Management Office  
813.826.3193 | ▪ TBD | ▪ United States Marine, Inc. |

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# Combatant Craft Forward Looking Infrared Replacement

- **Situational Awareness System** That Will Expand on the Capabilities of the Current CCFLIR by Using Additional Sensors to Provide Better Situational Picture
- **CCFLIR Replacement** Will Be Used on All SOF Family of Mobility Systems Including the MK V SOC, CCM, and SOCR Next

## Acquisition Strategy
- Full and Open Competition
- Requirement for All Combatant Craft

## Period of Performance
- FY13 through FY19

## Milestones
- TBD

## Point of Contact
- USSOCOM SORDAC, Combatant Craft Medium Program Management Office
  - 813.826.3193

## Funding
- TBD

## Current Contract/OEM
- FLIR Systems Boston
Security Forces Assistance Craft (SFA)

- SFA Will Be Used in a Low and Permissive Threat Environment
- Used for Joint Training with Partner Nations
- Commercial-Off-The-Shelf Procurement

<table>
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<th>Current Contract/OEM</th>
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<tbody>
<tr>
<td>Commercial-Off-the-Shelf (Non- Development Item)</td>
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<td>$2M - $5M</td>
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<td><strong>Point of Contact</strong></td>
<td><strong>Milestones</strong></td>
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<tr>
<td>USSOCOM, SORDAC, Program Manager Combatant Craft Program Management Office 813.826.3193</td>
<td>Not Applicable – Commodity Procurement</td>
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Technology/Capability Areas of Interest

- Undersea Vehicle Energy Storage Systems
- Advanced Surface Craft Power Systems
- Combat Swimmer Thermal Protection Systems
- Lightweight, Small Volume, CO2 Removal Technology for Underwater Breathing Apparatus and Undersea Platforms
- Lightweight, Submersible, Multi-Fuel Outboard Engine
- Secure Wireless Intercom System
- High Speed Communications
- Low-Cost Dry Submersible Hull, Mechanical & Electrical Technology
- Dynamic Ride Impact Mitigation