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
- Secure Wireless Intercom System
- High Speed Communications
Undersea Mobility Systems

- SEAL Delivery Vehicle (SDV)
- Conceptual
- Shallow Water Combat Submersible (SWCS)
- Dry Combat Submersible Prototypes
- Dry Deck Shelter (DDS) Host Submarine SSN/SSGN
- Diver Propulsion Device
NSW Undersea Roadmap

- DDS as Built
- DDS w/ 12" Internal Modifications
- Developmental Efforts
- Next Generation Shelter
- End of Life

- SDV w/ Minor Tech Refresh
- End of Life

- Wet Combat Submersible (SWCS Block I (Wet – 22'))

- Dry Combat Submersible (Surface Launch Only)
- Developmental Efforts
- UOES1
- UOES2
- UOES3

- Comm Submersible

- Developmental Efforts

UNCLASSIFIED
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:

– Service Life Extension Study
– Next-Generation DDS AoA
– Improved Track and Cradle System
– Modifications to Support Shallow Water Combat Submersible (SWCS)
Shallow Water Combat Submersible (SWCS)

- Manned Submersibles with Enhanced Capabilities to Conduct SOF Insertion and Extraction in Hostile and/or Denied Environments
- SWCS is a Wet Combat Submersible that will Replace the SEAL Delivery Vehicle Mk VIII Mod 1
Combatant Craft Assault (CCA)

Medium Range Maritime Interdiction of SOF in Medium/High Threat Environment. Also supports Coastal Patrol and Insertion Extraction Operations. Serves as an interim bridge between NSW RIB and CCM.

Technology Upgrades/Current Efforts
- Use of SPRINT Composite Technology
- High Performance Diesel Engines
- Reduction of Logistical footprint/parts tracking
Combatant Craft Medium Mk1

The CCM MK1 is the replacement for the MK V Special Operations Craft and NSW RIB. The CCM MK1 will be a multi-role surface combatant craft with the primary mission of inserting and extracting SOF in low-to-medium threat environments. CCM MK1 is envisioned as an essential step in providing a modern, clandestine, agile, adaptive, and operationally capable maritime craft as a force multiplier within the SOF structure.

- Down select to two vendors: USMI, OIW
- Schedule: To be discussed at kick-off meetings
Naval Special Warfare Rigid Inflatable Boat

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

Technology Upgrades/Current Efforts:
- Currently in Sustainment
- AFT Lifting Body (S&T Effort)
- Integrated Bridge System (IBS) (S&T)
  - Mobile Distributed Common Architecture (MDCA)
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
Combatant Craft Forward Looking Infrared

Ruggedized, Marinized, Light Weight, Gyro Stabilized, Cryogenically Cooled, Color & Infrared Camera, Laser Range Finder & Pointer

Technology Upgrades/Current Efforts:
- Software Upgraded to Reduce Display Clutter/ Enabled 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 Stabilize Small Arms Mount (SSAM) to Improve User Interface
Competitive Acquisitions

Near Term:
- Dry Combat Submersibles
  - Fill the Requirement for a Dry, One Atmosphere, Diver Lock-In/ Lock-Out Submersible
- Combatant Craft Medium (CCM)
  - Partial Replacement for Naval Special Warfare Rigid Inflatable Boat and MK V SOC

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

- Investigate the Applicability of Low-Cost Commercial Technologies & Processes and Classing of These Types of Submersible Vehicles For Use in Harsh Special Operations Environments While Reducing Technical Risk
  - Will Leverage Proven Sub-Systems and Equipment from SDV and SWCS
- Develop a Preliminary Technical Design that Conforms to Government Objectives
- Prototyping to Refine Technical Requirements and Reduce Risk

**Acquisition Strategy**
- BAA for Prototyping
- Multiple Contract Awards
- Phase I: Concept Design & Development Plan
- Phase II: Detailed Design & Construction

**Period of Performance**
- FY 11 - FY19

**Milestones**
- Milestone A in 3rd Qtr FY11
- Milestone B ~FY15
- IOC - TBD

**Funding**
- RDT&E: FY 12 - 15
- PROC: FY 15 - 19

**Current Contract/OEM**
- BAA Phase I: GDEB, LM, OII, L3
- BAA Phase II (S351): SG

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

**Acquisition Strategy**
- Full and Open Competition
- Requirement for 30 Craft

**Period of Performance**
- Contract Award in FY11 with a 10 Year Period of Performance

**Milestones**
- Test Article delivery: Q3 FY13
- MSC: TBD
- IOC: TBD

**Point of Contact**
- USSOCOM, SORDAC, Surface Systems Program Management Office
  813.826.3193

**Funding**
- RDT&E: FY 10 - 14
- PROC: FY 14 - 18

**Current Contract/OEM**
- Oregon Iron Works
- United States Marine Inc.
Special Operations Craft Riverine Next (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

**Acquisition Strategy**
- Full and Open Competition
- Projected Requirement for 24 CGR Systems

**Point of Contact**
- USSOCOM SORDAC, Surface Systems Program Management Office
  813.826.3193

**Period of Performance**
- Current contract ends CY 14

**Milestones**
- TBD

**Funding**
- TBD

**Current Contract/OEM**
- USMI
Combatant Craft Forward Looking Infrared Replacement - NextGen

- Situational Awareness System That Will Expand on the Capabilities of the Current CCFLIR by Using Additional Sensors to Provide Better Situational Picture
- CCFLIR Next Generation Will Be Used on All SOF Family of Mobility Systems legacy and future crafts

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<th>Acquisition Strategy</th>
<th>Period of Performance</th>
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| - Full and Open Competition  
  - Requirement for All Combatant Craft | - FY14 through FY19 | - TBD |

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Point of Contact
- USSOCOM SORDAC, Surface Systems Program Management Office  
  813.826.7516
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

### Acquisition Strategy
- Commercial-Off-the-Shelf (Non-Development Item)
  - Requirement for 12 SFA Light and 5 SFA Patrol Coastal Variant

### Period of Performance
- FY 10 - FY16

### Funding
- $2M - $5 M

### Milestones
- N/A - Commodity Procurement / GSA buys

### Current Contract/OEM
- None
- Procurement July/Aug

### Point of Contact
- USSOCOM SORDAC, Surface Systems Program Management Office
  - 813.826.3193
Combatant Craft Assault

• Open Ocean Craft with the Primary Mission to perform medium/high threat Maritime Interdiction Operations
• Secondary Mission of Insertion/Extraction of SOF
• CCA uses state of the art technology to for performance, stealth and crew situational awareness

**Acquisition Strategy**
- Sole Source for 24 systems, expediency
- Logistical Portion to be completed, government to provide TDP

**Period of Performance**
- FY 10 though FY19

**Milestones**
- TBD

**Point of Contact**
- USSOCOM SORDAC, Surface Systems Program Management Office
  813.826.3193

**Funding**
- TBD

**Current Contract/OEM**
- TBD