

Special Operations Forces Industry Conference



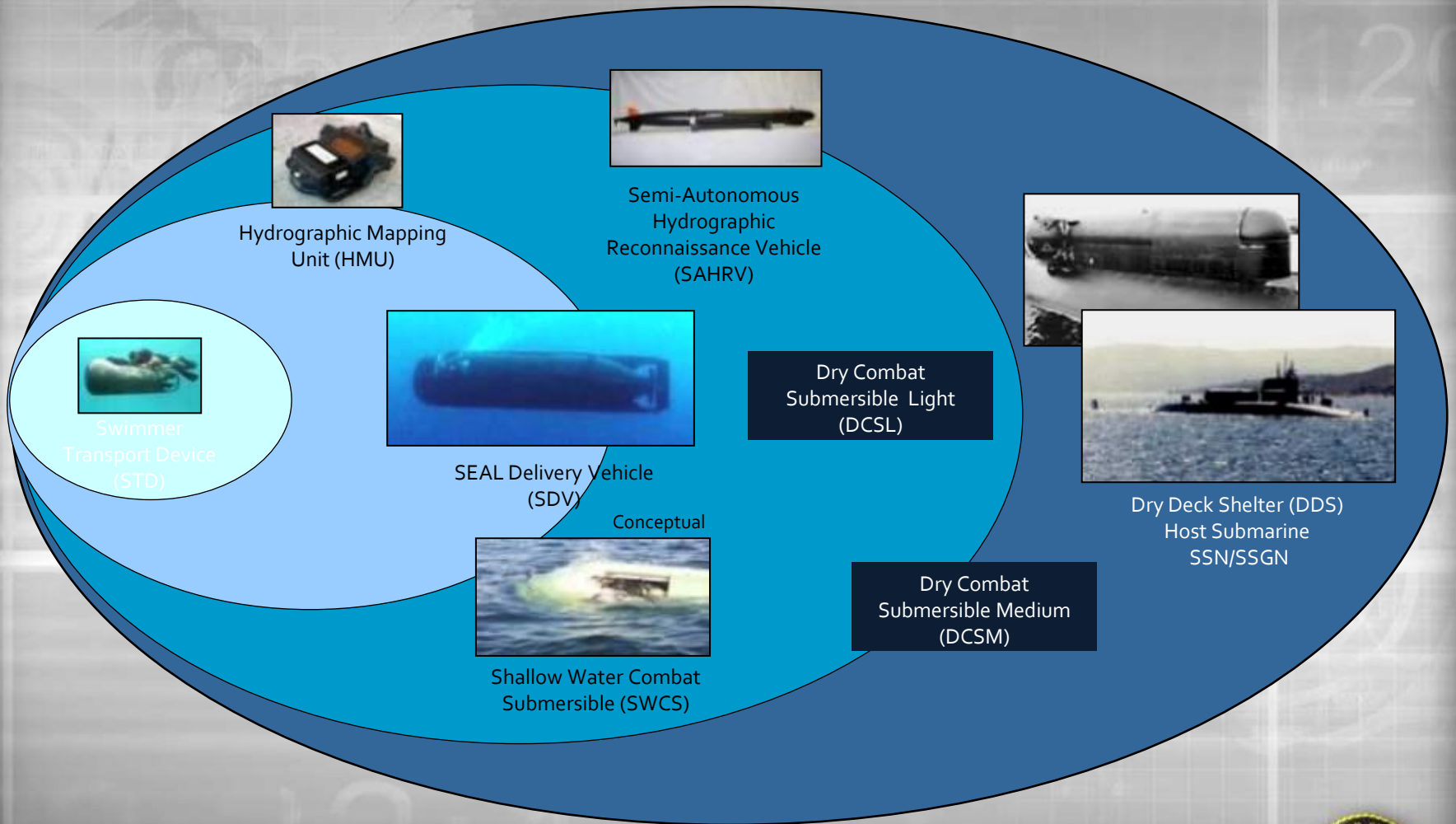
CAPT Rich Blank

Program Executive Officer-Maritime

Portfolio Review and APBI

Maritime Systems

Undersea Mobility Systems



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

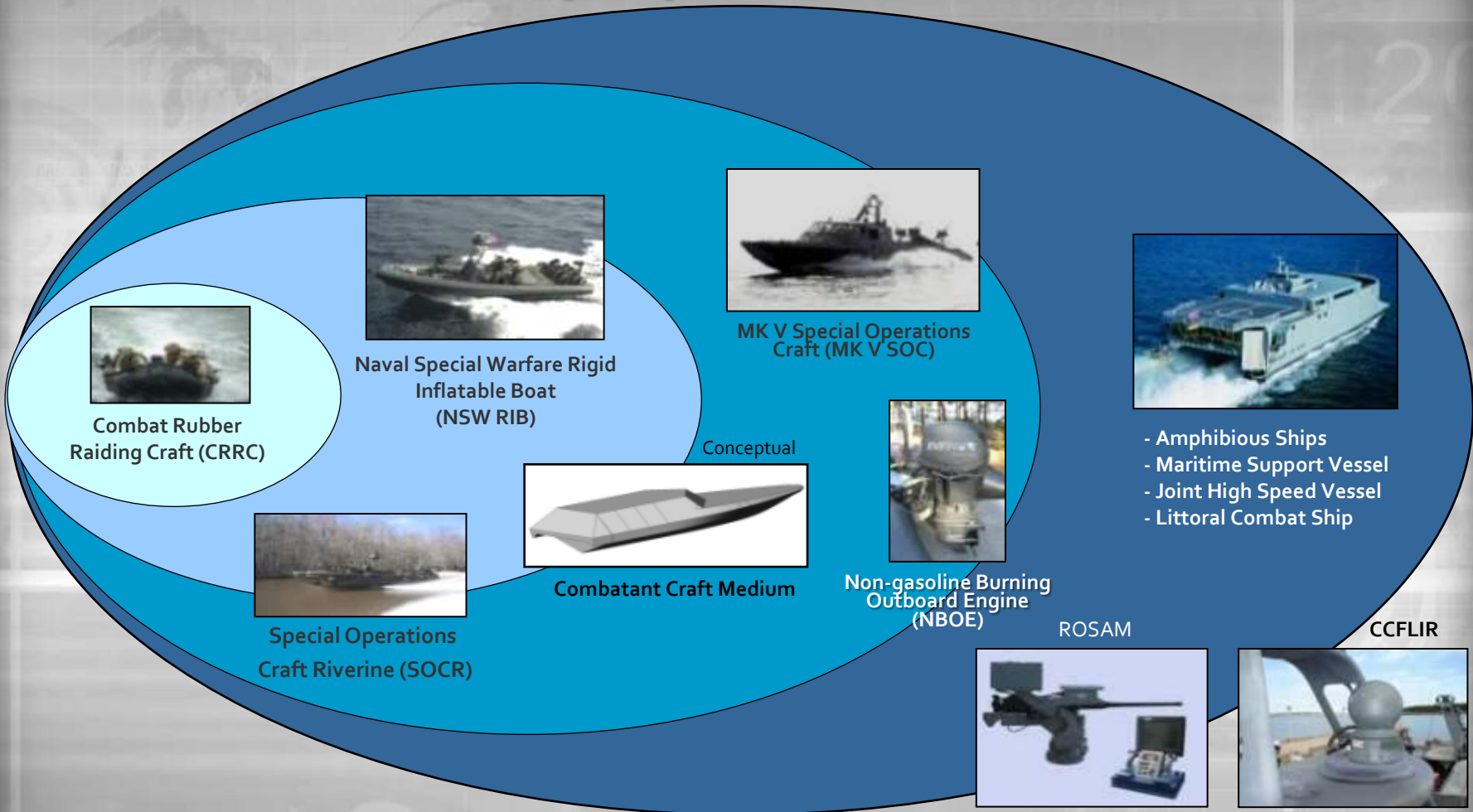


Technology Upgrades/Current Efforts:

- 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



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

MARITIME UNCLASSIFIED



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)

Non-Gasoline Burning Outboard Engine for SOF
Combat Rubber Raiding Craft (CRRC) Operations.
Capable of Being Launched from Submerged
Submarines and Able to Burn a Variety of
Aviation Fuels



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



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 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 MKV 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 a 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

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

TBD

Point of Contact

- USSOCOM SORDAC, Combatant Craft Medium Program Management Office
813.282.8795

Funding

- TBD

Current Contract/OEM

N/A



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

Acquisition Strategy

- Full and Open Competition
- Projected Requirement for 24 Systems

Period of Performance

- FY14 through FY19

Milestones

- TBD

Point of Contact

- USSOCOM SORDAC, Combatant Craft Medium Program Management Office
813.826.3193

Funding

- TBD

Current Contract/OEM

- United States Marine, Inc.



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

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-FY14

Milestones

Not Applicable – Commodity Procurement

Point of Contact

USSOCOM, SORDAC, Program Manager
 Combatant Craft Program Management Office
 813.826.3193

Funding

- \$2M - \$5M

Current Contract/OEM

TBD

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

