



NDIA Executive Forum "SSC Pacific Organization Update"

19 October 2010

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Technical Director, SSC Pacific

Statement A: Approved for public release; distribution is unlimited.



SSC Pacific's Focus --

Making Information Dominance A Reality

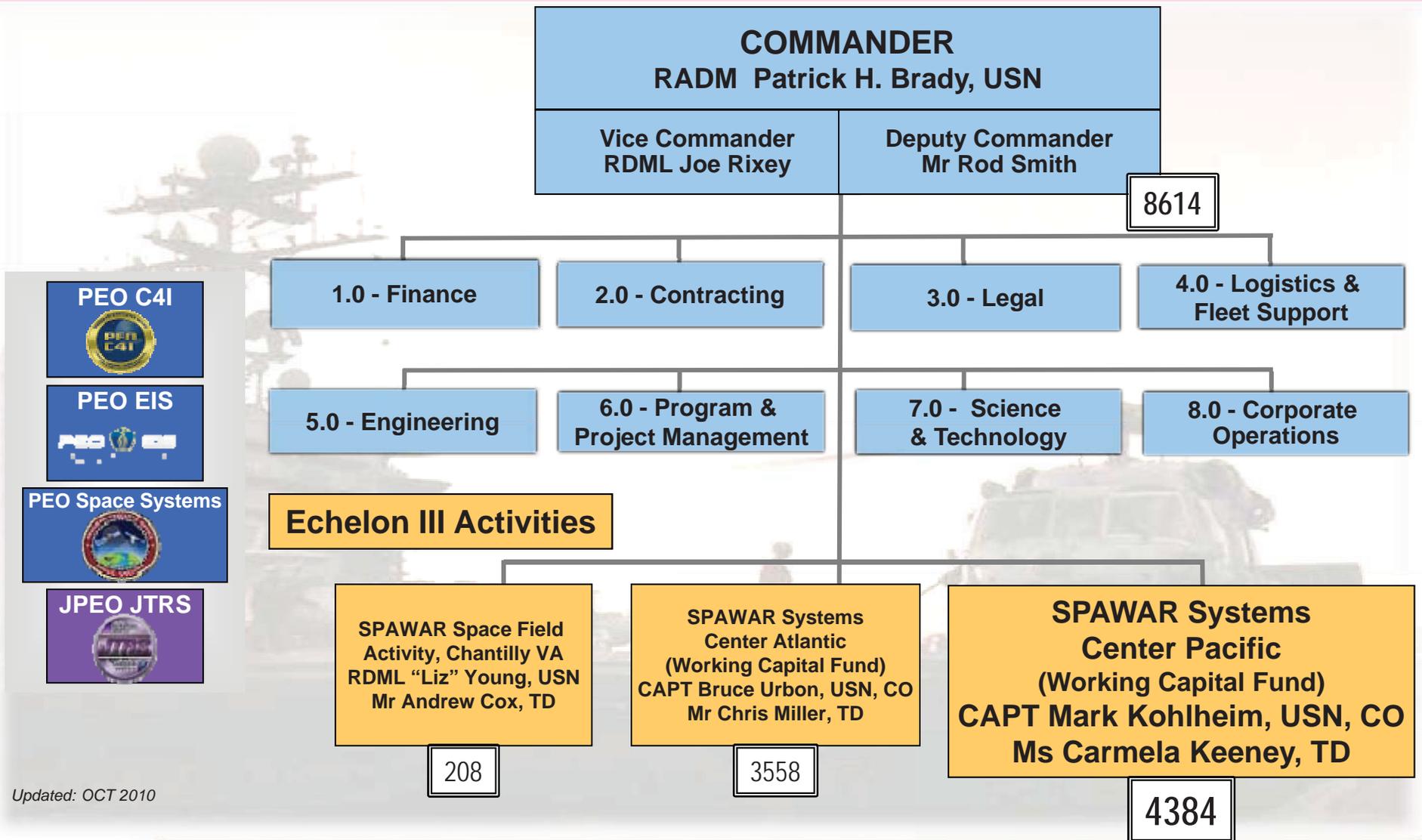


Topics

- ▼ Organization
 - Structure
 - Technical Competencies / Roles
- ▼ Awards
- ▼ Recent Accomplishments
- ▼ C4ISR Symposium – April 2010



Team SPAWAR

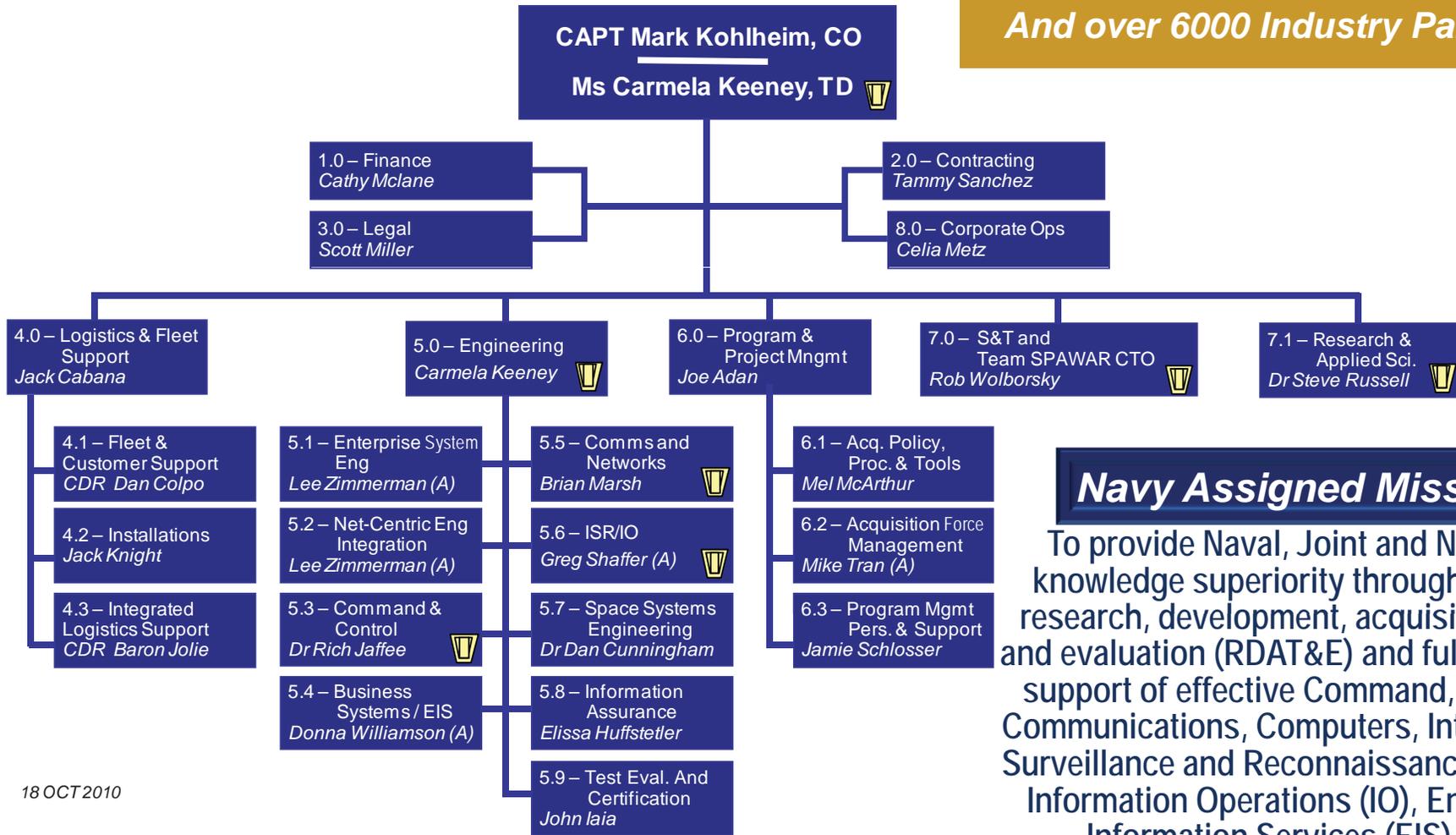


Updated: OCT 2010



SSC Pacific Profile and Mission

And over 6000 Industry Partners



Navy Assigned Mission

To provide Naval, Joint and National knowledge superiority through quality research, development, acquisition, test and evaluation (RDAT&E) and full life cycle support of effective Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR), Information Operations (IO), Enterprise Information Services (EIS) and Space capabilities.

18 OCT 2010



SSC Pacific Competency Leads

1.0 Finance	2.0 Contracts	3.0 Legal	4.0 Logistics & Fleet Support	5.0 Engineering	6.0 Prog. & Project Management	7.0 Science & Technology	8.0 Corporate Operations
Cathy McLane	Tammy Sanchez	Scott Miller	Jack Cabana	Carmela Keeney	Joe Adan	Rob Wolborsky	Celia Metz
1.1 Comptroller (Budget, Acctng & FM Systems) David Garcia	2.1 ACAT Program Contracting	3.1 Acquisition Law	4.1 Fleet & Customer Support CDR Dan Colpo	5.1 Enterprise Systems Engineering Lee Zimmerman (A)	6.1 Acquisition Policy, Processes & Tools Melvin G. McArthur	7.1 Research & Applied Science Dr Steve Russell	8.1 Total Force Management Mark Rawlins
1.2 Business/Resource Financial Mgmt Lisa Calvin	2.2 Non-ACAT Program Contracting Tammy Sanchez	3.4 Civilian Personnel Law	4.2 Installations Jack Knight	5.2 Net-Centric Eng Integration-NCEI Lee Zimmerman (A)	6.2 Acquisition Force Management Mike Tran (A)	7.2 Forecasting, Assess & Transition Rob Wolborsky	8.2 Information Technology Mngmt Brian Riehm
1.6 Cost Estimating John Chhit (A)	2.3 Policy & Strategic Initiatives Sharon Pritchard	3.5 Command Legal Support Chris Kneib	4.3 Integrated Logistics Support CDR Baron Jolie	5.3 Command and Control Dr Rich Jaffee	6.3 Program Mgmt Personnel & Support Jamie Schlosser		8.3 Command Ops/Support Greg Lawrence
		3.6 Intellectual Property Kyle Epele	4.4 Logistics Policy & Resources	5.4 Business Systems / EIS Donna Williamson (A)			8.4 Corporate Strategy Scott Crellin
		3.7 Environmental Law		5.5 Communications and Networks Brian Marsh			8.5 Corporate Comms & PA Jim Fallin
				5.6 ISR/IO Greg Shaffer (A)			8.6 Inspector General Jan Rosen-Serafini
				5.7 Space Systems Engineering Dr Dan Cunningham			8.7 Special Programs Oversight & Compliance Roger Aronoff
				5.8 Information Assurance Elissa Huffstetler			8.8 Small Business Office Marti Schwartz
				5.9 Test Evaluation and Certification John Iaia			

Legend:
 National /Deputy Nat'l Lead

CBS Approved 14 DEC 2009
 Updated 18 OCT 2010



4.0 – Logistics & Fleet Support Competency

823 Employees

Fleet & Customer Support

- System Support & Sustainment
- ISEA & Distance Support

Installations

- Planning / Policy & Process
- Production & Installation

Integrated Logistics Support

- Life Cycle Logistics
- Supply Chain Management
- Manpower, Personnel & Training



Jack Cabana

Ship & Shore Installations

ISEA

Repair & Restoration

6.0 – Program & Project Management (PM)

41 Employees

Acquisition Policy, Processes & Tools

- Support acquisition program management and their program/project teams IPTs/EIPTs

Acquisition Force Management

- Supports NNFE - Acquisition PM Workforce
- Provide guidance and oversight for shaping strategies

Program Mgmt Personnel & Support

- Execute life cycle PM for the PEOs and direct projects



Joe Adan

Acquisition PM Professionals

Life-cycle PM

DACM Certifications



5.1 – Enterprise Systems Engineering

11 Employees

Enterprise Requirements Analysis and Assessments

- Mission needs and Enterprise requirements

Human Systems Integration

End-to-end Effectiveness Analysis through:

- Modeling and Simulation
- Enterprise system and technical architectures
- Software Processes
- Data Strategy (Content Delivery) Processes

5.2 – Net-Centric Eng Integration-NCEI

231 Employees

Services Integration and Governance

- Services Oriented Architecture (SOA) for engineering and integration

System of Systems (SoS) and Platform Level Engineering

- Provides engineering support for systems solutions
- Integrating hardware and software across multiple systems

Cross System
Engineering and
Architecture

Design
Considerations
and Constraints



Lee Zimmerman

System of
Systems
Engineering

Net-centric
Processes and
Standards



5.3 – Command & Control

616 Employees

Plan, organize, direct, coordinate and control forces for the assigned missions

Life-cycle support of tactical and non-tactical information for C2 needs:

- Expeditionary
- Enterprise
- Maritime
- Tactical
- Experimental
- Aviation
- Naval Combat Systems



Dr Rich Jaffee

Decision Superiority

Missile Defense Agency

Tactical Data Links

5.4 – Business Systems / EIS

108 Employees

Business IT Applications

- Medical & Health Management
- Inventory & Financial Management
- Personnel Admin Management
- Etc.

Business Data Systems Engineering Mngmt / Business KM



Donna Williamson (A)

5.9 – Test, Evaluation & Certification

79 Employees

Core Missions ISO CNO N2N6

- Standards Management (TDL / MTF)
- Tactical Network Readiness Groups \
- Link 16 Network Design Facility
- Navy Interoperability Test & Cert/USN Rep for JITC Testing



John Iaia

Unique PAC / Enterprise Test Resources (Comms / BMD / E2C, etc)



5.5 – Communications and Networks

439 Employees

Communications

- Navy and Coalition Forces
- Antennas, Photonic Solutions, Communications Interoperability and Atmospheric Propagation

Networks

- Installation and sustainment
- Strategic, tactical, non-tactical and vital networks

Wireless and optical communications

- Strategic communications
- Line of Sight (LOS), Beyond Line of Sight (BLOS) and Satellite Comms (SATCOM)



Brian Marsh

Interoperability for USN, DoD and Coalition Partners

Networking to the Tactical Edge

5.8 – Information Assurance (IA)

177 Employees

Cryptologic and Key Management

- Type 1, Type 2 and commercial certification process (NSA and NIST)
- Ensure new cryptographic device developments adhere to standards

Computer Network Defense

- Cyber Security
- Validate Integrity
- Identity management (PKI, Biometrics).

IA System Security

- Security architecture
- Engineering IA solutions



Elissa Huffstetler

Cryptologic Device Development

Integrity of Acquired Systems



5.6 – ISR / IO

624 Employees

Information Operations Systems

- Electronic warfare (attack, defend and protect) computer network operations

ISR

- Signal detection & collection, modeling & simulation, fusion, processing and exploitation

Meteorological and Oceanographic Systems

Autonomous and remote controlled platforms, sensors

- National, Joint and Naval missions on land, in the air and in the maritime domain



Greg Shaffer (A)

Cyber Operations

Electronic Warfare

Autonomous Systems

5.7 – Space Systems Engineering

17 Employees

Systems Engineering and Integration

- Payload systems integration
- Space Transport
- Spacecraft launch

Space Vehicle Engineering

- Space technology / capability demonstration
- Positioning/Navigation/Timing

Ground Support System Engineering

- Mission ground systems RDT&E
- Satellite Telemetry, Tracking, and Control (TT&C).



Dr Dan Cunningham

Satellite Operations

Space Systems & Ground Support



7.1 – Research & Applied Science

286 Employees

Scientists perform both theoretical and experimental work

Basic and Applied Research with Advanced Technology development

- Research areas - physical, engineering, environmental, and life sciences
- Prototypes; proof of technological feasibility
- Research focused on warfighter needs in realistic environments



Dr Steve Russell

Experimentation for Tech Readiness

Prototypes

Basic and Applied Research

7.2 – Forecasting, Assessment and Transition

41 Employees

Technology Development

- Requirements-based analysis of capability-gaps in C4ISR systems development
- Forecast technology opportunities
- Assess technology developments
- Technology transitions for major system
- Experimentation supporting acquisition, concept and technology



Rob Wolborsky

Team SPAWAR CTO

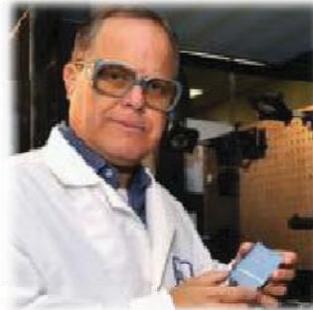
Experimentation supporting Acquisition

Assess Capability Gaps

Recent Awards

Federal Laboratory Consortium Far West Regional Awards

Hydrogen Sponge invention -
Outstanding Technology
Development



Secretary of the Navy 2010 Energy and Water Management Award



2010 - Competency 7.2 S&T Excellence Awards

- Dr Jeff Waters (5.3)
- Dr Dimitris Tsintikidis (5.5)
- Dr Mark Stevenson (5.6)
- Ms Anna Leese de Escobar (7.1)
- Dr Dexter Ishii (Code H)



Cryogenic Exploitation of RF

**Electro-Optical Vulnerability
Assessment Tool (EOVAT)**

**Physics of Underwater
Sound Propagation**





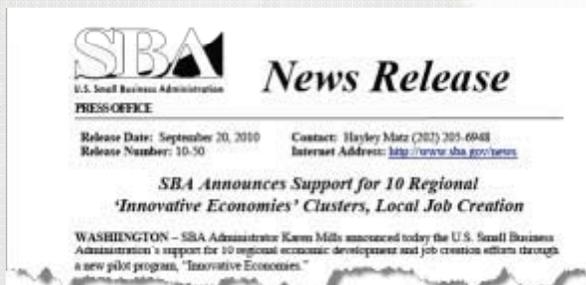
Other Notable Achievements

DoD HPCMP designates SSC Pacific HPC Center as 4th Affiliated Resource Center (ARC)

Lead for C4ISR/IT infrastructure for STRATCOM's new HQ



SBA Announces 10 Regional 'Innovative Economies'



SPAWAR - DoD's leading and most successful SBIR program

"SPAWAR's commercialization rate, as defined by Navy SBIR, is 77 percent. That's the highest in the Navy! The Navy's average as a whole with all the other SYSCOMs is 44 percent and DoD's is even lower."



San Diego Advanced Defense Cluster (San Diego, Calif.) The San Diego Advanced Defense Cluster focuses on autonomous systems and cyber security, as well as other technologies applicable to defense needs.



Industry Outreach

SSC Pacific Cyber Warfare Support Procurements

- ▼ SSC Pacific Center-Wide Vehicle
- ▼ 3 Contract Actions
 - BAA (focused on S&T)
 - Issued 17 Sep 08
 - GENSER Contract (N66001-09-R-0079)
 - Multiple Award IDIQ CPFF
 - 2 Year Base, 3 1-Year Award Terms
 - Approximate \$249M Target Ceiling
 - Industry Reviewed SOW
 - RFP Synopsis in FedBizOps
 - RFP Released Nov 09
 - Orals Held in July 10
 - Target Award in Late Nov 10
 - Classified Contract
 - In Process



2011 C4ISR Symposium

**"Assuring Information Dominance
in a Denied C4ISR Environment"**

**WITH OVER 1,000 ATTENDEES
EXPECTED FROM GOVERNMENT
AND INDUSTRY, AFCEA- SAN DIEGO
AND SSC-PACIFIC WILL BE HOSTING
ONE OF THE MOST ANTICIPATED
SYMPOSIUMS OF THE YEAR.**

APRIL 4-8, 2011

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<http://c4isr.afcea-sd.org/>

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We Are Focused and Looking Forward

- ▼ New COMPSPAWAR – RADM Patrick Brady Priorities
- ▼ 10th Fleet / CYBERFOR Priorities
- ▼ CNO Priorities
- ▼ Naval Priorities
- ▼ Joint and National Priorities

Making Information Dominance a Reality