Procurement Technical Assistance Centers provide no-cost assistance to help firms succeed in government contracting.

Find your local PTAC at
www.aptac-us.org

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PTACs are funded in part through a cooperative agreement with Defense Logistics Agency
In-Service Engineering Department

Mr. David Coleman
Today’s Navy

- Forward presence
- Limited autonomy
- Battlespace awareness
- Integrated defense
- Warfighter performance
- Budget constrained
- Need for in-service system sustainment

Potential Game Changers/Disruptive Technologies

- Unmanned Systems
- Sustainment & Readiness in Denied Environments
- Data and target fusion
- Big Data analytics, machine learning, and visualization technologies
- Augmented/virtual/mixed reality technologies
- Fully integrated product support and logistic systems
- Resilient architectures and software assurance

Next Navy (+5-10 years)

Develop resilient and operationally ready systems that can stay in the fight in denied environments, reduce program life-cycle costs, and lower fleet maintenance burden

- Develop software assurance capabilities to reduce design flaws, improve security, and enhance reliability
- Develop mature AR/VR technologies; evaluating new/emerging human assistive technologies
- Support resilient cybersecurity designs of tactical system and network architectures
- Develop digital sustainment techniques to provide improved forecasting data to ensure material readiness
- Develop product support & logistics capabilities for contested environments
- Develop systems that provide remote diagnosis and effective distance support
- Develop tools and support for unmanned systems
- Develop adaptive data analytics and machine learning capabilities to detect, track and classify objects and fuse multiple data sources
Enterprise Systems Engineering Division

Services

• N00178-04-D-4018-N0025317F3001 In-Service Engineering (ISE)/Integrated Logistics Support (ILS) Support Services
  – Logistics and engineering support across the department
  – Awarded 01 May 2017
  – Expires 30 Apr 2022
  – BAE Systems (large business)

• N00178-14-D-7860-FY01 Software Support Services
  – Software development and maintenance
  – Awarded 29 Sep 2016
  – Expires 28 Sep 2019
  – Opal Soft Inc. (small business)

Skillsets

• Systems Administration:
  – Virtualization: Docker, VMWare RHEL, Powershell,
  – Windows and active directory administration (i.e. managing Windows 10 seats), RHEL Active Directory integration, Git

• Database Administration
  – MS SQL, Oracle/Oracle Multi-tenant
  – Oracle Appliances

• Cybersecurity
  – ATO administration
  – F5 administration
  – HBSS/ESS administration
  – Patch management

• Artwork:
  – 3DS Max or Maya, Zbrush, Substance Painter, 3D modeler

• Software:
  – Programming Languages: C#, Java, Javascript, CSS, Powershell, ASP.net, React Framework, C++, JSON, xAPI standard
  – Integrated Development Environments: Visual Studio, Eclipse, Unity, Oracle
  – Testing: Unit testing, automated testing

• Soft skills:
  – Master Training Specialists (MTS)
  – Tech Writer/Publishing Agent
  – Training Front End Analysis (FEA)
### Services
- **Software**
  - Custom computer programming
- **Testing**
  - Repair
  - Mechanical Re-certification
  - Electrical Re-certification
- **Hazardous Waste, Environmental Remediation**
  - Cleaning
  - Removal

### Manufacturing
- **Mechanical, Torpedo Components (Inert and Explosive)**
  - Industrial Gas, Commercial and Industrial Gas Cylinders
  - Explosives
  - Laminated Plastics, Sheet and Shape, O-Ring
    - OTTO Fuel II Compatible EPDM
  - Rubber Product for Mechanical Use
  - Metal Die-Casting
  - Metal Tank, Heavy Gauge
  - Hardware, marine and hull items
  - Ammunition, guided missile components
  - Mechanical Switchgear
  - Primary Battery, Nonrechargable
  - Navigational, Aeronautical, and Instrumental
- **Electrical**
  - Printed Circuit Assembly
  - Instruments for testing electricity and electrical signals
  - Current-carrying wiring device
  - Semiconductor and related
## USW Systems Engineering

### Electronic Acquisition and Sensors, Code 432

#### Production

- **Technology Insertion Hardware (TIH) 16/18 and TIH 20/22**
  - Production contracts for design and manufacture of display, workstation, processor, and network systems that provide computer processing and memory, data storage and extraction, and input/output interfaces to support specific software applications of Navy Combat Control and Sonar Systems.

- **Future Contracts: TIH 24/26**
  - A separate industry day will be held for this procurement and will be sponsored by the Program Office, PMS 425.

### Electronic Systems, Code 433

#### Services

- **Future Contract Need:**
  - Next Generation Gertrude (NGG): A Form, Fit Function replacement for the Legacy AN/WQC-2/2A used for communication between surface ships and submerged vessels. This system will follow STANAG requirements for voice and continuous wave (CW) communications in two frequency bands.
  - Procurement within the next three years.
Undersea Defense Systems
Acoustic Countermeasures

Countermeasures ISEA, Code 435

Responsible for:
• Technical assistance for any fleet or maintenance activity request.
• Technical Manual Development and Management
• Training and ILS Certification of Intermediate Maintenance Activities
• Configuration Management
• Preventive Maintenance Management
• Sustainment and Acquisition Logistics for CSA systems
• Alteration and Installation of CSA systems
• Sustainment and Acquisition Logistics for acoustic countermeasures (ADCs)
Acoustic Countermeasures protect the submarine fleet from acoustic-homing torpedoes. Both 3-inch and 6-inch variants are produced.

Hardware Design and Development Contracts for countermeasures:
- In production: ADC MK 2 MOD 7, ADC MK 3 MOD 1, ADC MK 4 MOD 1
- In development: ADC MK 5 MOD 0
Undersea Defense Systems
Acoustic Countermeasures

Countermeasures Set, Acoustic (CSA)

CSA systems onboard submarines protect the submarine fleet by allowing for rapid deployment of countermeasures.

• Support Service Contracts
  – Drawing and Document Development and Updates
• Hardware Design and Development Contracts
  – CSA components
  – Circuit Card Assemblies, Printed Wiring Boards
• Hardware Procurement
  – Electrical Assemblies: Power Supplies, Junction Boxes, Test Hardware
  – Wiring Harnesses
Obsolescence Management Division
The purpose of the program is to ensure that DMSMS issues are:

- Identified
- Analyzed
- Mitigated to best meet the lifecycle needs of the platform
DMSMS Center of Excellence

- Trained Qualified People
- Common Processes
- Organic Tools

- Logisticians
- Data Analysts
- Engineers
- Technicians
- Software Developers

- Desktop Guides
- Reporting
- Collaboration
- Business Case Analysis
- Quality

- Obsolescence Management Information System (OMIS)
- Impact Assessments
- Predictive Analysis
- Data Visualization
- Data Analytics

Providing DMSMS management support since 1985
DMSMS Customer Portfolio

DMSMS tasking focused on NAVSEA
- All submarine classes (HM&E systems)
- Submarine PARM systems
- Surface ships (HM&E systems)

As a national leader driving policy, research, and best practice execution, Keyport has a strong reputation that extends beyond the NAVSEA community into the DoD Enterprise. Keyport is a major player developing OSD Policy and Guidance and is a perennial leader and speaker at the annual DoD DMSMS Conference.
Obsolescence Management Information System (OMIS™) Capabilities

• Obsolescence Status
  • Illustrates obsolescence impact down to the configuration part number based on manufacturer part status
  • Statuses are rolled up to show overall impact to systems

• Case Management – Obsolescence Case Log
  • Maintain cases to track progress towards resolution
  • Capture respective cost avoidance and metrics
  • Master case creation to monitor multiple cases as a single case

• Supply Data Management
  • Data import and inventory monitoring
  • Watch list and supply forecasting

• Bill of Material (BOM) Management
  • Both import and export capabilities

• Forecasting Obsolescence
  • Predicting future obsolescence impacts
  • Data visualization

• Customizable Reports

Distribution Statement A: Approved for Public Release; Distribution is unlimited.
NUWC Keyport #17-046.
Our Mission: Eliminate DMSMS risk to Warfighter readiness.