Air Force Materiel Command

Common Support Equipment (CSE) Solutions
(Create Uncommon Acquisition and Sustainment Challenges)

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15 June 2015
Overview

- Intro to Common Support Equipment
- Lead Command Roles & Responsibilities
- Common Support Equipment Challenges
Support Equipment Categories

Automatic Test Equipment (ATS) & Test, Measurement, & Diagnostic Equipment

Aerospace Ground Equip.

Propulsion Equipment

Munitions Materiel Handling Equipment
<table>
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<th>Common vs. Peculiar Defined</th>
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<td><strong>Supports</strong></td>
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<td>Common</td>
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<tr>
<td>More than One Weapon System</td>
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<td>Centrally (AFMC is Lead Command)</td>
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Common or Peculiar?

**Common**

MD-1 Universal Towbar
(Supports F-16, A-10, C-130, Global Hawk, etc.)

**Peculiar**

C-17 Peculiar Towbar
Common or Peculiar?

Peculiar

PD-501 Air Conditioner
(Supports B-2 Only)

Common

ACU-808 Large Air Conditioner
(Supports: B-1B, C-32, E-3, E4B, E-8C, RC-135)
Common or Peculiar?

**Peculiar**

(Armament Testers for F-15)

**Alternative:**

Common Armament Tester
Common or Peculiar?

Trick Question - Kind of…

New Universal Hydraulic Test Stand – Supports all 1- and 2-hydraulic system aircraft

Legacy Hydraulic Test Stand Supports F-16, A-10, C-130, and C-5 aircraft
**Lamborghini Countach**

Manufactured: 1974-1990  
Total Produced: 2,042 (Lifetime)

**BMW E46**

Manufactured: 1998-2006  
Total Produced: 561,249 (in 2002)
Common or Peculiar
So What??

The Rule of One

One Enterprise Solution
One Supply Chain
One Management Team
One Fix for Obsolescence
One System to Upgrade
One Bill to Pay
6.17. Support Equipment/Automated Test Systems (SE/ATS). Application of standardized Support Equipment/Automatic Test Systems (SE/ATS) is preferred to provide efficiency and reduce cost. The PM shall minimize the proliferation of system-unique equipment at all levels while ensuring the maintenance and deployment requirements of existing and developing systems are met.

6.17.1. The PM shall acquire SE/ATS which is, to the maximum extent possible, common and interoperable with other Services and across multiple systems and munitions. System unique SE/ATS shall be developed or procured only as a last alternative, after coordination with the SE/ATS PGM and consideration of SE/ATS that is already in the USAF or DoD inventory.

6.17.2. The PM shall:

6.17.2.1. Select SE/ATS based on cost benefit analysis over the system life cycle, reliability, CBM+ compliance, standardization, and field hardness, size, mobility, and environmental needs.

6.17.2.2. Coordinate SE/ATS development, procurement, and modification requirements with the SE/ATS PGMs, who will ensure that DoD processes for SE and ATS selection are followed. The SE/ATS PGMs will provide any applicable SE/ATS-specific contract data requirements for incorporation when PMs are authorized to procure unique/peculiar SE/ATS.

**Takeaway:** Teamwork with SE/ATS needs to start early in RFP development and continue through system fielding.
The Support Equipment Recommendation Data (SERD) process is designed to prevent the introduction of unnecessary equipment into the Air Force inventory

- SERD Process Provides:
  - Validation that proposed support equipment is not duplicating capabilities of existing equipment
  - Ensured accountability of support equipment added to the AF inventory
Common or Peculiar Determination

Key Players in the SERD Process

- Program Office
- Contractor
- AFMETCAL
- Allowance Standards Manager
- Using Commands
- Equipment Specialist (ES)
- SE/ATS PGM

Prime Provisioning Activity
- Prepares 603 (coordination document)

Division SERD Focal Point

- Branch ES
- Initiate cataloguing

SPM/SPO
- Initiates Form 9
- Funded by requiring activity

DLIS
- AFMETCAL
- Users

Consolidated comments

Logistics Mgr

Buy

OSS&E Technical Authority

https://cs1.eis.af.mil/sites/age/SERD/Forms/AllItems.aspx
Common Roadmap
ATS – Family of Testers

Versatile Depot
Automatic Test System

Joint Service Electronic
Combat Systems Tester

Multi-Use System
Test Next Generation

Goal: Standardize and Reduce Systems to Achieve Economic & Logistics Efficiency
Common Roadmap
Smart Equipment Replacements

Universal Hydraulic Test Stand

72kW Flight Line Generator

250kW Ground Power Unit

Goal: Standardize and Reduce Systems to Achieve Economic & Logistics Efficiency
Lead Command

Roles & Responsibilities
Lead Command Role: Represent User Communities
Lead Command Role: Manage & Sustain

Automatic Test Equipment
& Test, Measurement, & Diagnostic Equipment

Aerospace Ground Equipment

Propulsion Equipment

Munitions Materiel Handling Equipment

- 1,050 Unique NSNs*
- 11,065 Unique NSNs
- 8,038 Unique NSNs
- 4,393 Unique NSNs
- 227 Unique NSNs

Total: 24,773 Unique NSNs / 214K items

*NSN = National Stock Number
Lead Command Role: Prioritize

AF Agile Combat Support Function
1-n Priority List
Lead Command Role: Funding Advocate

Operations & Maintenance (3400 Funding)

Planning

Investment (3010 Funding)

Execution

Programming

Budgeting
Lead Command Role: Initiate Programs

[Image of FedBizOpps.gov website page]

Request for Information for Engine Test Stand

Solicitation Number: FA8519-14-R-400000
Agency: Department of the Air Force
Office: Air Force Materiel Command
Location: Pk/F2 - Robins AFB

Original Synopsis
Mar 14, 2014
2:29 pm

Solicitation Numbers: Notice Type:
FA8519-14-R-400000 Sources Sought

Synopsis:
Added: Mar 14, 2014 2:29 pm
The request for information is for the purpose of obtaining information relative to an upcoming procurement action in the Support Equipment and Vehicles Division at Robins AFB in relation to Engine Test Stands.

Companies are encouraged to provide responses to this questionnaire but are advised that their participation is voluntary and no reimbursement of any kind will be provided. A company’s participation in the market research via this questionnaire does not obligate the Government to enter into any contractual agreement, either formally or informally, with a company.

Responses are requested by 14 Apr 2014, 12:00 PM (EDT)
Lead Command Role: Innovate

Common ALE-40 Countermeasures
Transportation Module

Problem:
Does not fit F-35 Countermeasures

Solution:
Develop Peculiar Solution that fits F-35…and all other countermeasures* * Except F-22

(Future Replacement for ALE-40)
Common Support
Equipment Challenges
Challenges:
Limited Budgets

Too many broken pieces to fund...
Challenges: Limited Budgets

How Much is Below the Waterline?

The Funding Gaps
SE&V: $672M
ATS: $568M
($1.2B Over the FYDP)
Challenges: Changing requirements

Over Time...
Systems Change
Interfaces Change
Procedures Change
Technologies Change
Challenges: Diminishing Sources of Supply

What Do These Two Have in Common?

MHU-141 Weapons Trailer

AMC Spirit (cira 1979-1983)

Answers:
Age (~40 years),
Braking System,
&
Both Manufacturers are Out of Business
Challenges:
Aging Equipment

MC-1A High Pressure Air Compressor

AC-130A (1966)

F-4C (1960)

F-111A (1964)

KC-130F (1962)

SR-71 (1964)
Challenges: Knowledge Gap

Wanted:

**Missing Information**

- Equipment Impacts on Mission
- Equipment Problems
- Equipment Workarounds
- Equipment Concerns

Reward:

**Better Mission Support**
WIFM Takeaways

1) Common Equipment Cuts SPO Workload and AF Cost
2) Consider the Logistics Effects of Purchase Decisions
3) Initiate ‘Common Equipment’ Process Early (Pre-RFP)
4) Lead Command, ATS and SE&V Divisions will help
5) Communication is Key
6) Communication is Key
7) Communication is Key
Points of Contact

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