STANDARDIZATION IN THE ACQUISITION LIFECYCLE

29 AUGUST 2011
**Report Documentation Page**

<table>
<thead>
<tr>
<th>1. REPORT DATE</th>
<th>2. REPORT TYPE</th>
<th>3. DATES COVERED</th>
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<tr>
<th>4. TITLE AND SUBTITLE</th>
<th>5a. CONTRACT NUMBER</th>
<th>5b. GRANT NUMBER</th>
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<tbody>
<tr>
<td>Defense Acquisition University, Mid Atlantic Region, Fort Bevoir, VA, 22060</td>
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<tr>
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What is Standardization?

- The process of developing and agreeing on (by consensus or decision) uniform engineering criteria for products, processes, practices, and methods for achieving compatibility, interoperability, interchangeability, or commonality of materiel.
The Materiel Development Decision precedes entry into any phase of the acquisition management system.

- Entrance Criteria met before entering phase
- Evolutionary Acquisition or Single Step to Full Capability

Evolutionary Acquisition is the preferred approach.
• Pre-Systems Acquisition focus is on identifying and maturing promising technologies
• Systems Acquisition focus is on developing, demonstrating and fielding capability
• Sustainment focus is on supporting fielded capability
Standardization in the Acquisition Lifecycle

- Provides proven and demonstrated products and practices
- Helps assure users’ needs will be met
- Minimizes risks
  - Cost
  - Schedule
  - Performance
Standardization in the Acquisition Lifecycle

- Area for consideration in decision-making
  - Market Research
  - Trade-off analyses
- Systems Engineering Tool
- Provides a foundation for supportability

When properly applied, standardization is an enabler of acquisition success
Consider standardization requirements

Consider Standardization Requirements

- Performance
- Interoperability and Interfaces
- Technology Insertion
- Sustainment
- Safety
- Compliance
Standardization in Systems Acquisition

Rationalize Standardization Requirements

Implement Standardization

Rationalize Standardization Requirements

- Use of existing standards
- Tailoring of standards
- Development of new standards
- Parts Management
Implement Standardization

- Technical Data Package
- Parts Management
- Continuous Improvement
Standardization in Sustainment

IOC
Operations & Support
Sustainment

FOC
Maintain and Improve Standardization
Maintain and Improve Standardization

- Ensure conformance
- Implement and update parts management plan
- Update documentation
- Identifying new opportunities for standardization
Standardization Management

- Policy
- Technology
- Documents

DoD

Military Departments and Defense Agencies

Defense Activities

Strategic

Defense Standardization Executive*

Component Standardization Executive

DoD

Tactical

Defense Standardization Program Office (DSPO)

Departmental Standardization Office (DepSO)

Command Standardization Office (ComSO)

*The Defense Standardization Executive serves as the Executive Agent for the Secretary of Defense

Technology Management

- Managed by Federal Supply Class/Group or Standardization Area
- Lead Standardization Activity
- Assignments listed in ASSIST Database

Lead Standardization Activity

Army  Navy  USAF  DLA  Other Defense Agencies
*For Non-Government Standards the Activity Responsible for DoD-Wide coordination is called an Adopting Activity
** Document responsibilities are listed in the ASSIST Database

Use of Standardization Documents

- Selection
- Application
- Tailoring
- Contractual Aspects
Selection of Standardization Documents

Is use of document specified by law or regulation? (See SD-21 and DISR)

Yes

Use that document

No
Selection of Standardization Documents - 2

Does Document Describe product or process/method?

No

Process or Method

Product

Use Standardization Product Description Decision Process

Use Standard (Direction) or Handbook (Guidance)
Selection of Standardization Documents - 3

Product

- Can Reqts Be Met by Commercial or Modified Commercial Product?
  - YES: Use NGS or CID
  - NO: Is Reqts Unique to the Department of Defense?
    - YES: Use Defense Specification
    - NO: Use Federal Specification

Use NGS vs CID Decision Process
Selection of Standardization Documents - 4

Does Acceptable NGS Exist?

- NO
  - Can Existing NGS Be Modified?
    - NO
      - Can New NGS Be Developed?
        - NO
          - Develop CID
        - YES
          - Develop NGS
    - YES
      - Work With NGSB to modify
      - Modify NGS via contract
      - Develop CID until NGS is Available
- YES
  - Use NGS

Factors to Consider:
- Time
- Industry Interest
- ROI
### Application of Standardization Documents

#### Referencing
- Citation of a document
- Identify specific issue or revision
- Changes incorporated as reference is updated (may be pro or con)
- Must refer to referenced document to determine requirement

#### Extraction
- “Cut and paste”
- Requirements are self-contained
- Copyright issues
- Requires updating when source is updated
- May affect readability

For short references, extraction is generally preferred.
Tailoring of Standardization Documents

- Limitation of requirements
  - Methods, types, classes, etc.
  - “When specified” or “Unless otherwise specified” requirements
- Modification of Requirements
- Exclusion of Requirements

Standardization Documents should always be tailored for the specific application
Contractual Aspects of Standardization Documents

• Ambiguity
  – Generally ruled against drafter of requirement
• Possibility
  – Usually addressed by contract type
• Implied Warranty of detail specifications
Questions?

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