ANSI/EIA 649 Revision A (Draft) and EIA 649 Handbook Status

Sherman Weatherspoon III
Lockheed Martin
Sherman.weatherspoon@lmco.com
301.240.6413
Need for Item Standardization Realized

- Industrial Age expansion
- CM Issues became critical during World War II

Department of Defense (DoD) and Industry take Action:

- To Identify and Adopt Existing Good Business Practices
- To Promote the Consistent and Rigorous Application of these Processes and Practices across Industry
The Configuration Management Functions Facilitate Technical Management of Product Configuration Information for such Purposes as:

- Producibility and Repeatability
- Improved Performance, Reliability or Maintainability
- Extended Life and Supportability
- Defect Correction
- Product Traceability
- Program Cost/Schedule/Technical Integrity
- Two-Way Interchangability
- Cost Savings/Avoidance
A History of CM Guidance

MIL-STD-480
MIL-STD-481
MIL-STD-482
MIL-STD-483
MIL-STD-1456
MIL-STD-1521

MIL-STD-973  ANSI/EIA-649

MIL-STD-499  ANSI/EIA-632

MIL-STD-100 (ANSI, ASME)
MIL-STD-1000  MIL-T-31000  MIL-DTL-31000
MIL-STD-490  MIL-STD-961 (Approx)
MIL-STD-83490  Canceled with Release of 490A
ANSI/EIA 649 Evolution


ANSI/EIA 649-1998

ISO-10007

ANSI-STD

PLCS

ANSI/EIA 649A-2004
ANSI/EIA 649 Revision A Team

Team Lead - Sherman Weatherspoon - Lockheed Martin (Handbook - Co-Lead)
Co-Lead - Larry Bauer – Boeing (Handbook – Team Lead)

Karen Chandler – Boeing
Bill Dean - US Air Force Institute of Technology
    Bill Gold - Boeing
    Rikki Gutierrez – Boeing
    Ernie Hamm - CM2Hill
Mitch Kaarlela - Lockheed Martin
    Jeff Klein - Boeing
Alan Lager - MLR Associates
    Dan McCurry II – Boeing
    Donna Paulson – DoD
Bill Ritter – Ritter Associates
Rick Schiappa – Lockheed Martin
    Kimberly Shughrue - NSA
    Tom Tyler – Go2Group
    Ken Vannoy – NASA
Beth Worthington - SAIC
Scope of ANSI/EIA 649 Revision A

- Expand to fully address
  - Total product lifecycle phases
  - Expand baseline methodology
  - Harmonize terminology and definitions with global standards (ISO, other ANSI-STD’s, etc.)
  - Best practice CM global functions and principles

- Five functions (5) and forty one (41) defining Principles

- Ensure Integration with related standards

- Integrate digital data throughout the standard
Revision Development Strategy

- Leave Normative Information
  - Terms
  - Definitions
  - Principles
  - Clarifying Text

- Remove Informative Information
  - Clarifying Legacy Examples
  - Legacy CM Practices
  - Legacy Implementing Considerations

- Move Informative Information to Handbook
Submitted 649A for G33 Leadership review (Jan ‘02)

Disposition G33 Leadership comments (Feb-June)

Resubmit to G33 Leadership (August 02)

G33 649A Workshop tutorial (Sept 02)

G33 Ballot (Jun – Aug 03)

Comment Disposition (Sep 03 –Jan –04)

G33 Membership companies review (Jan –04 –Feb -04)

ANSI Ballot (March 04– April 04)
Weekly Telephone Conferences
11:00-12:00 AM Pacific, 2:00PM Eastern
ANSI/EIA Working Group Team Only
Adhoc Team members as needed

Contact:
- sherman.weatherspoon@lmco.com or 301-240-6413
- larry.d.bauer@boeing.com or 425-342-1759
Task Description:

Handbook 649 Objective

- Users guide for implementing CM regardless of project size, complexity, customer, or business objectives.
- Reflective of EIA-649 Rev A. and consistent with the principles of ISO10007, CMMI and other CM Standards.
- Best practice examples for Industry on how to apply the Functions and Principles of EIA-649.
- Government (DoD) specific annex to Handbook was but on hold by OSD 18 months ago pending MIL-HB-61B update.
Handbook 649 Purpose

Provide implementation guidance for:

- Tailoring to fit various applications.
- Preparing CM plans.
- Evaluating of CM systems.
- Creating CM Metrics.
- Demonstrating Compliance with Principles.
Initial sections were authored by subteams using a standard template.

Annexes will be identified as section material is developed -

Initial Annexes Identified are:

- Table demonstrating compliance to individual principles.
- Sample CM Plan Outline.
- Government Specific Material (Content TBD)
Integrate team drafts and edit for consistency of presentation and style.

Present preliminary draft for Panel review, discussion, and input at the September 2003 EIA Annual Conference.

Government/Industry integration panel

Prepare plan for final draft development, review and approval.
HB-649 PARTICIPANTS

58 PANEL MEMBERS - GOOD MIX OF GOVERNMENT AND INDUSTRY

- MINIMUM EXPERIENCE 2 YRS
- MAXIMUM EXPERIENCE 40+ YRS
- AVERAGE EXPERIENCE 17.8 YRS
- TOTAL EXPERIENCE 1032+ YRS
THE TASK

CREATE AT LEAST 2 EXAMPLES PER PRINCIPLE
- TABLES
- CASE STUDIES
- FORMS
- FLOWS
- FIGURES
- SAMPLES

SHARE EXPERTISE
WORK GROUPS

- PLANNING AND MANAGEMENT
  - TOM TYLER & STAN BEITSCH

- IDENTIFICATION
  - BILL DEAN & KAREN CHANDLER

- CHANGE MANAGEMENT
  - RICH OTTO & KIM SHUGHRUE

- CONFIGURATION STATUS ACCOUNTING AND VERIFICATION AND AUDIT
  - KEN VANNOY & PHIL PROVENCE
ACCOMPLISHMENTS

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PLANNING AND MANAGEMENT (10)
- 20+ Examples
- Refined Characteristics of CM Implementation Phases Table, Sample Best Practices
- Developed Team Follow-on Action Items to Gather Detailed Sample CM Plans, etc.

IDENTIFICATION (12)
- 26 Examples Created
  - 15 Diagrams/Tables
  - 5 Flow Charts
  - 6 Case Studies
ACCOMPLISHMENTS cont’d

- CHANGE MANAGEMENT (12)
  - 36 Examples Created
    - 10 Tables
    - 11 Flows
    - 4 Forms
  - 1 Sample
  - 7 Charts
  - 3 Figures

- STATUS ACCOUNTING AND VERIFICATION AND AUDIT (7)
  - 20+ Examples Created
WHAT’S NEXT?

- CONTINUE WEEKLY MEETINGS TO INCORPORATE MATERIAL OBTAINED AT THIS CONFERENCE
- REVIEW, EDIT, AND SUBMIT FOR GEIA APPROVAL
Contact Information

- Larry Bauer
  larry.d.bauer@boeing.com

- Sherman Weatherspoon
  sherman.weatherspoon@lmco.com
Weekly Meeting Information

 Thursdays at 8:30 AM Pacific (non-holidays)

 The numbers and passwords are:
  - National toll free: 1-866-235-8350
    • Pass code: 734537#
  - Puget Sound access: 206-655-2988
    • Pass code: 734537#

 The WebEx sign-on is:
  - https://boeing.webex.com/boeing
  - Meeting number: 821961461
  - Password: handbook
ANSI/EIA 649 is a guidance Configuration Management Standard that establishes the Principles and Terminology which can be applied to any project environment.

Coming soon…GEIA HB-649 “Implementation Guide for Configuration Management”