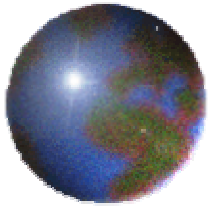


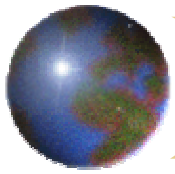
ANSI/EIA 649 Revision A (Draft) and EIA 649 Handbook Status



Sherman Weatherspoon III
Lockheed Martin

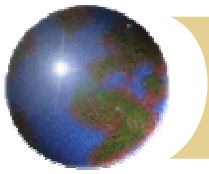
Sherman.weatherspoon@lmco.com

301.240.6413



Agenda

- ✚ **CM History**
- ✚ **CM Standards – History**
- ✚ **Rev A Summary**
- ✚ **Current Status**
- ✚ **649 Handbook Status**
- ✚ **Summary**
- ✚ **Contact Information**



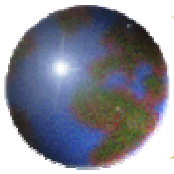
A Brief History of CM

Need for Item Standardization Realized

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

Department of Defense (DoD) and Industry take Action:

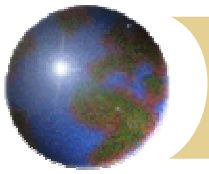
- To Identify and Adopt Existing Good Business Practices**
- To Define Procedures and Practices that Provide an Orderly Standard Process for Technical Management of Product Life Cycles**
- To Promote the Consistent and Rigorous Application of these Processes and Practices across Industry**



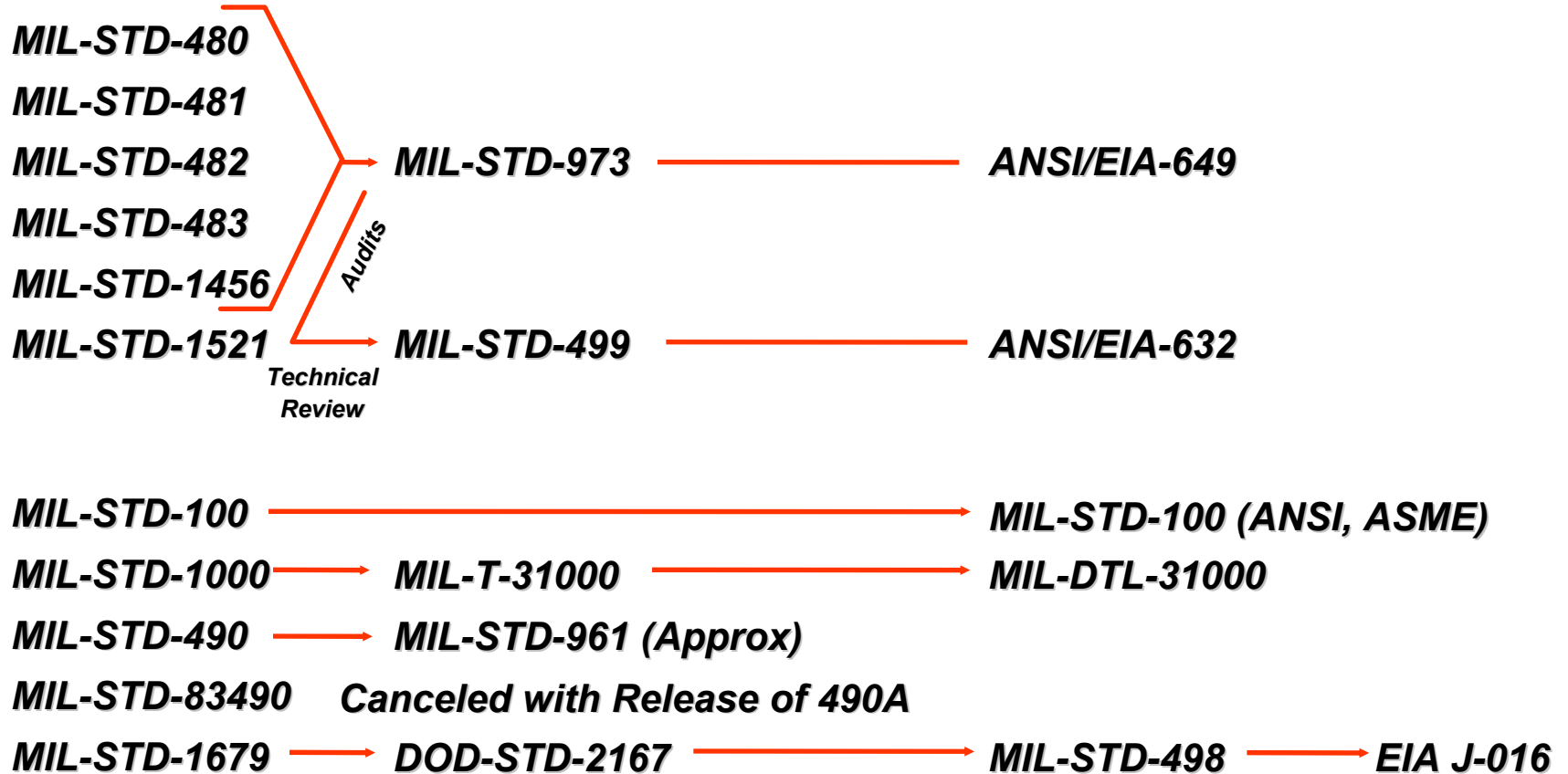
Benefits of Configuration Management

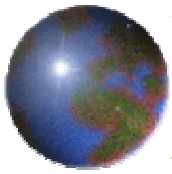
☉ The Configuration Management Functions Facilitate Technical Management of Product Configuration Information for such Purposes as:

- ☒ 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**

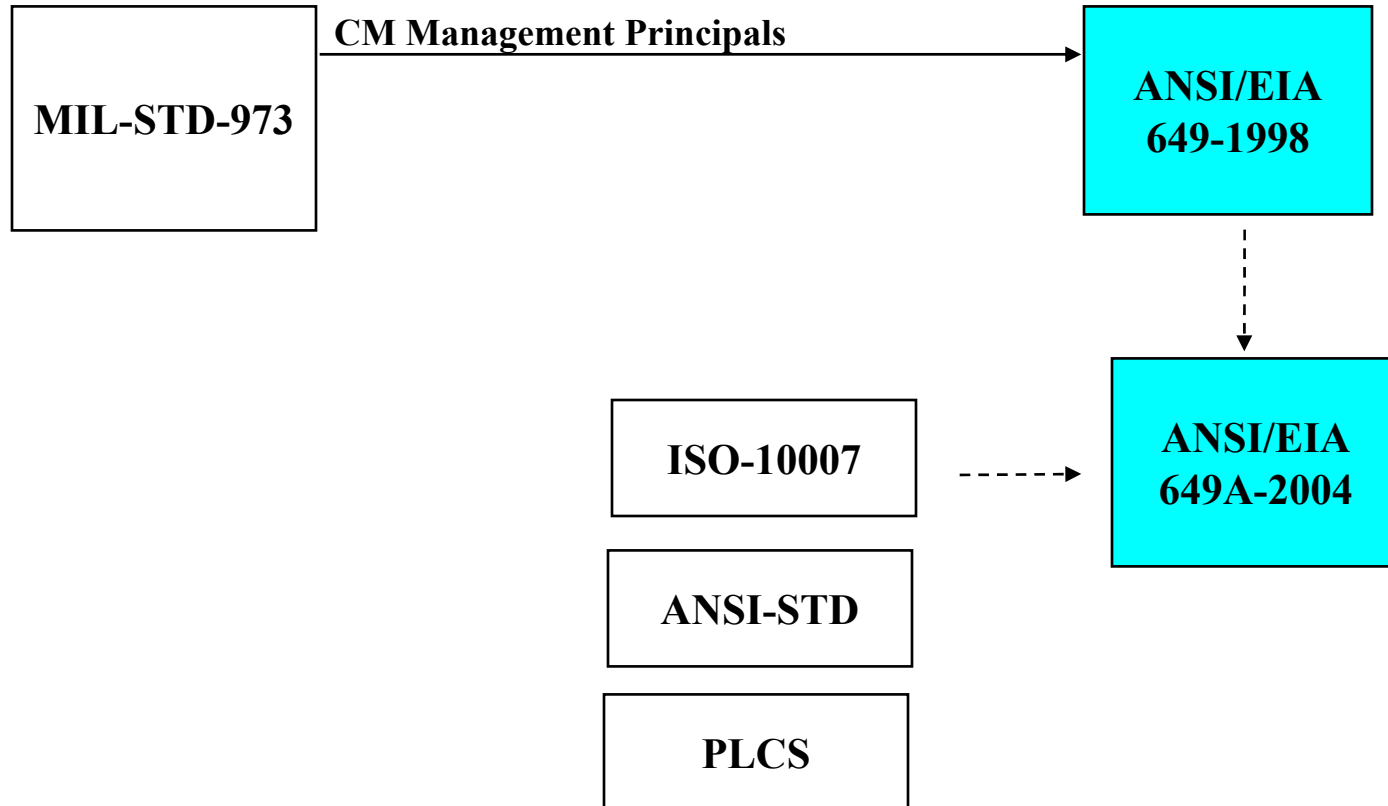


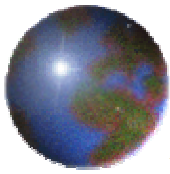
A History of CM Guidance





ANSI/EIA 649 Evolution





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

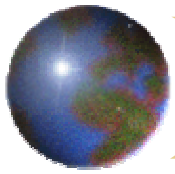
Rick Schiappa – Lockheed Martin

Kimberly Shughrue - NSA

Tom Tyler – Go2Group

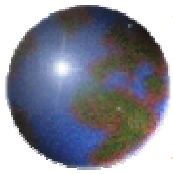
Ken Vannoy – NASA

Beth Worthington - SAIC



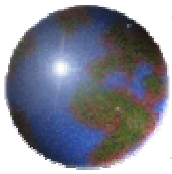
Scope of ANSI/EIA 649 Revision A

- ✦ **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**



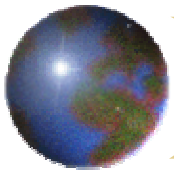
Revision Development Strategy

- ✦ **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**



ANSI/EIA 649 Schedule Review

- ✦ ***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)***



ANSI/EIA 649 Revision CCB

☉ Weekly Telephone Conferences

11:00-12:00 AM Pacific, 2:00PM Eastern

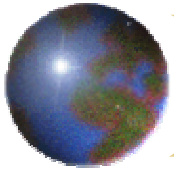
☒ ANSI/EIA Working Group Team Only

☒ Adhoc Team members as needed

☉ Contact:

☒ sherman.weatherspoon@lmco.com or 301-240-6413

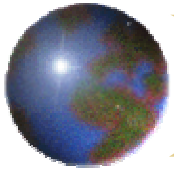
☒ larry.d.bauer@boeing.com or 425-342-1759



Handbook 649

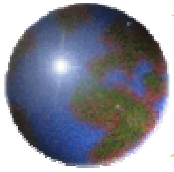
✦ Task Description:

- Use informative data removed from ANSI/EIA-649, Annex C data, Handbook 61 data, and other examples identified, in preparing an Implementation Guidance Handbook to supplement and complement ANSI/EIA-649.**



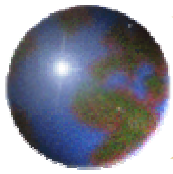
Handbook 649 Objective

- ✿ **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.**



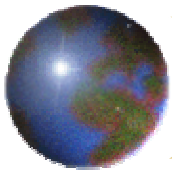
Handbook 649 Purpose

- ✦ **Provide implementation guidance for:**
 - ✦ **Tailoring to fit various applications.**
 - ✦ **Preparing CM plans.**
 - ✦ **Evaluating of CM systems.**
 - ✦ **Creating CM Metrics.**
 - ✦ **Demonstrating Compliance with Principles.**



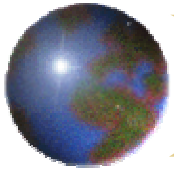
Handbook 649 Development Plan

- **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)**



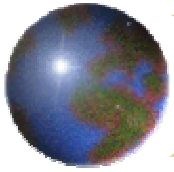
Handbook 649 Development Plan (cont)

- ✦ **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.**



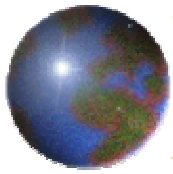
HB-649 PARTICIPANTS

- **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

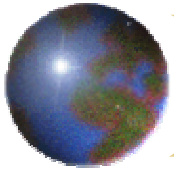
▣ BILL DEAN & KAREN CHANDLER

✦ CHANGE MANAGEMENT

▣ RICH OTTO & KIM SHUGHRUE




✦ CONFIGURATION STATUS ACCOUNTING AND VERIFICATION AND AUDIT

▣ KEN VANNOY & PHIL PROVENCE




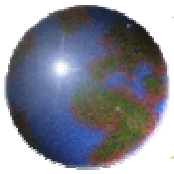
ACCOMPLISHMENTS

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

1 Sample

11 Flows

7 Charts

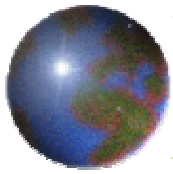
4 Forms

3 Figures



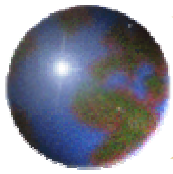
STATUS ACCOUNTING AND VERIFICATION AND AUDIT (7)

- **20+ Examples Created**



WHAT'S NEXT?

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



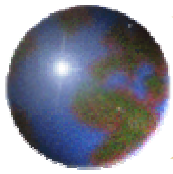
Contact Information

✦ Larry Bauer

larry.d.bauer@boeing.com

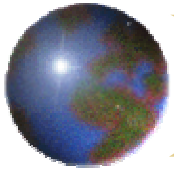
✦ Sherman Weatherspoon

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**



Summary

- ✦ 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”