DCMA EVMS Center Update

Presented By:

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EVMS Center (EVMSC) Boeing Group

Portfolio Management and Business Integration (PM&BI) Directorate

March 13, 2024

- DCMA EVMSC Mission and Organization
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DCMA EVMSC Mission and Organization

- EVMS Center
  - **Mission |** The EVMS Center contributes to the DoD acquisition process through actionable assessments of contractor effectiveness at supplier facilities, which provides stakeholders with expectations of future performance and potential impacts on individual contractors and/or programs
  - **Vision |** Serve as a dedicated partner for effective DoD acquisition decision making by ensuring integrated, reliable, and actionable Earned Value Management data

EVMSC – Area of Responsibility

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- Kratos   - Westinghouse

Boeing Group
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- Boeing

Raytheon/L3Harris Group
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- Raytheon (Pratt/Collins)   - Ball Aerospace   - DRS
- Vigor Works   - Peraton
                                              - L3Harris

General Group
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- GE Aviation   - Charles Stark Draper Laboratory
- Leidos   - Dynetics
- Rolls Royce (RR) Corp.   - RR plc.
- Progeny Systems Corp.   - BAE Systems (Rochester, UK)
- Eastern Shipbuilding Group (ESG)   - VT Halter Marine
- Alsalam Aerospace Ind. (AAI)   .

BAE/GD Group
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- BAE   - Bechtel   - GD
- Battelle   - Coleman Aerospace   - Aerojet Rocketdyne
- General Atomics   - Amentum   - Honeywell
- Jacobs Technology - Textron Systems (AAI, TSM&LS)
- Bell Flight

EVMSC – Geographic Locations

NG Group – Carson, CA
Raytheon/L3H Group – Tucson, AZ
BAE/GD Group – Ft. Worth, TX
Boeing Group – Bloomington, MN
LM Group – Orlando, FL
General Group – Hanscom AFB, MA
EVMSC HQ – Ft. Gregg-Adams, VA

EVMSC Integrated Product Teams (IPTs)

Training IPT:

- A group of functional subject matter experts (SMEs) "responsible for training guidance, EVMS informal development plans, DAWIA certification review and adjudication recommendation, and general EVMS learning internal and external to the Agency."
- Leads: Patricia Gonzalez (PIXD) and Lucinda Smith (PIXG)

Policy IPT:

- A group of functional SMEs "responsible for official requests for information from internal and external sources regarding policy, regulation, clause, and other EVMS functional document review. Responsible for supporting or providing responses to internal and external formal and informal requests for policy review, comments, and adjudication of EVMS functional policy, procedure, and regulatory type requests for information. Includes promulgation of information among EVMS Center team members at each Group location."
- Leads: Danielle Bemis (PIXR), Keven Davis (PIXN)

Tools IPT:

- A group of functional SMEs "responsible for gathering, understanding, and processing EVMS-specific tools used in all facets of performing the EVMS functional duties in support of carrying out all aspects of the BPs as necessary. Responsibility includes promulgation of information among EVMS Center team members at each Group location."
- Leads: Jean Christian Brutus (PIXG), Patrick Stedem (PIXG)

DCMA EVMSC Tools Update

DCMA and Industry DECM Summit - January 23-25, 2024

- DECM - DCMA EVMS Compliance Metrics

- Engaged with vendors and developers that have the existing capability to process automated DECMs

- Technical discussions/presentations facilitated by DCMA EVMS Center Tools Team SME

- Pre-scheduled one-on-one sessions

- DCMA EVMS Center Artificial Data Sets (ADS) focus

- Automation Benefits
    - + Quick, consistent, objective results
    - + Calculations are standard across the enterprise and controlled by tool configuration
        - + Repeatable results
        - + Same across DCMA Hubs, analysts, and skill levels
        - + Industry standard results (via ADS)
        - + Lower learning curve
    - + Standardized tool input
        - + Tool sees all data the same, regardless of data source
    - + Trend analysis
        - + Uniform calculations allow for comparison across the enterprise
    - + Easily assess a full population without the need for sampling
    - + No manual considerations or configurations for each step in the DECM process

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- Automation Challenges
  - Data Standardization
    - Various data formats submitted from the Contractor
    - Potential for introduction of errors in the data that lead to incorrect results
    - Requires an analyst to understand the contractor's system and unique variations and standardize consistently
  - Does not consider variances subtleties in the process
  - Custom automation by an analyst
  - Metric or guideline updates could require extensive code changes and validation
  - Interpreting the Results
    - Raw results do not reflect the nuance of the systems
    - A red (out of tolerance) result is not the same as a noncompliance

- Inaccurate trips waste EVMS Center and contractor time, and ultimately taxpayer money
  - Time spent investigating tool calculation issues rather than real DECM trips requiring follow-up
  - Time spent sifting through real DECM trips and trips caused by minute budgets that round to $0

- Missed trips provide an overly optimistic picture and inhibit follow-up
  - Trips that would have identified an actual issue go unaddressed, and the deficiencies remain

- Misalignments between manual and tool results reduces confidence and discourages tool use

- Enable vendors to confirm the accuracy of their calculations based on small, simple datasets that contain known, expected DECM results with identified trips or populations
  - Results in a better product for all users, whether they are government or contractors
  - Allows all vendors, regardless of whether we have a current licensing or contractual relationship, to benefit from the Artificial Datasets

- Enhance contractors' understanding
  - Test their own internal and vendor tools
  - Provides an example dataset containing the minimum information required for artifacts 11 (Integrated Master Schedule (IMS)) and 13 (EV Cost Tool Data)

- The IPMDAR contains data covering 3 data elements within DCMA's data artifacts list:
  - Artifact 13: Cost Data
  - Artifact 11: Schedule Data
  - Artifact 20: CPR/IPMR/IPMDAR

- DCMA does NOT dictate the format of data submitted for its data calls
- DCMA may use the CPD as cost data ("Artifact 13") provided it includes all required fields. Several required Artifact 13 fields are not included in standard fields.
- DCMA does NOT currently use the SPD as schedule data ("Artifact 11")
- An artificial dataset exists for the CPD that contains the minimum required fields per the specifications

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DCMA EVMSC Policy Update

FY24 Summary Updates

Global/Widespread

- Performed process gap analysis for proposed EIA and EVMS guideline updates

- Continuing 508 Compliance

- Restructuring BPs to align with DCMA agency surveillance policy framework

BP Specific

- **BP2 – EVM System Description Review**
  - Process updated to review system as a whole vs. "checklist" approach
  - Includes input from NRO, Navy

- **BP3 – EVMS General Support**
  - Improved alignment with BP4 & BP6
  - Focused BP on IBR support

- **BP4 – EVMS Surveillance**
  - Clarified level III CAR issuance process
  - Created Guideline Evaluation Templates (GETs) for surveillance

- **BP5 – Request For Compliance Assessment**
  - Revised title
  - Updated to refer to BP4 or BP6

- **BP6 EVMS Compliance Review**
  - Added template for subcontractor EVMS compliance
  - Added subcontractor CAR issuance flowchart

EVMSC Training Integrated Product Team (IPT)

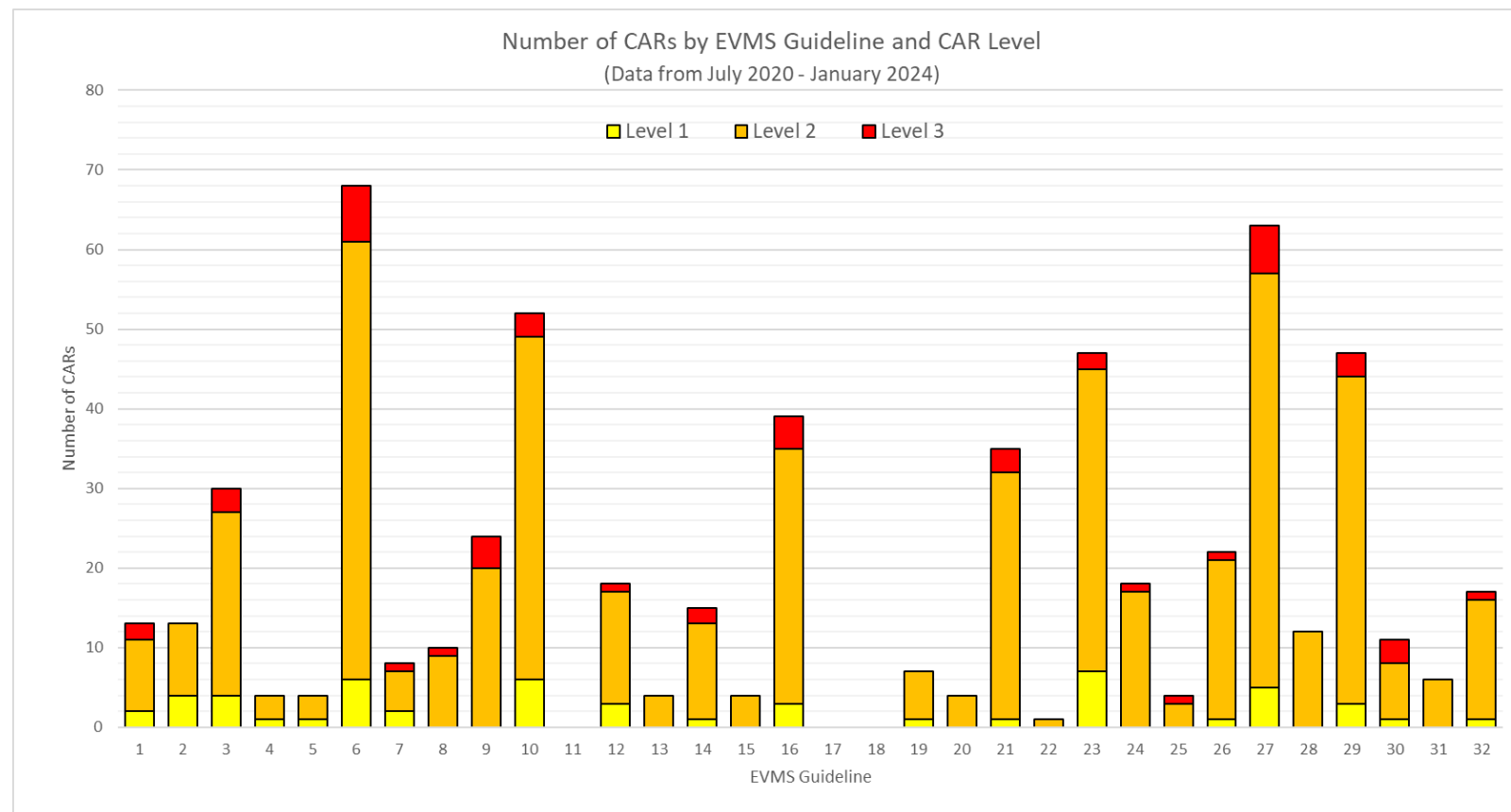# Latest EVMSC Training Team News and Future Goals

- Internally to DCMA, EVMS functional specific training has been created and taught with separation across three different tiers/levels
  - Entry focused on EVMS policy, tools and analytic competencies
  - Journey dedicated to EVMS System Surveillance and Compliance Review Lead Analysts
  - Expert concentrated EVMS Segment and Compliance Review leadership

- EVMSC collaborating with DAU:
  - 5 out of 7 EVMS courses now available
  - Developing EVMS credential curriculum
  - Future intention to make available to all DoD

EVMSC CAR Trend Update

DCMA CAR database (PDREP*) from July 2020 – January 2024

- 600 EVMS CARs
  - 53 Level I; 498 Level II; 49 Level III
  - 1 CAR per Guideline

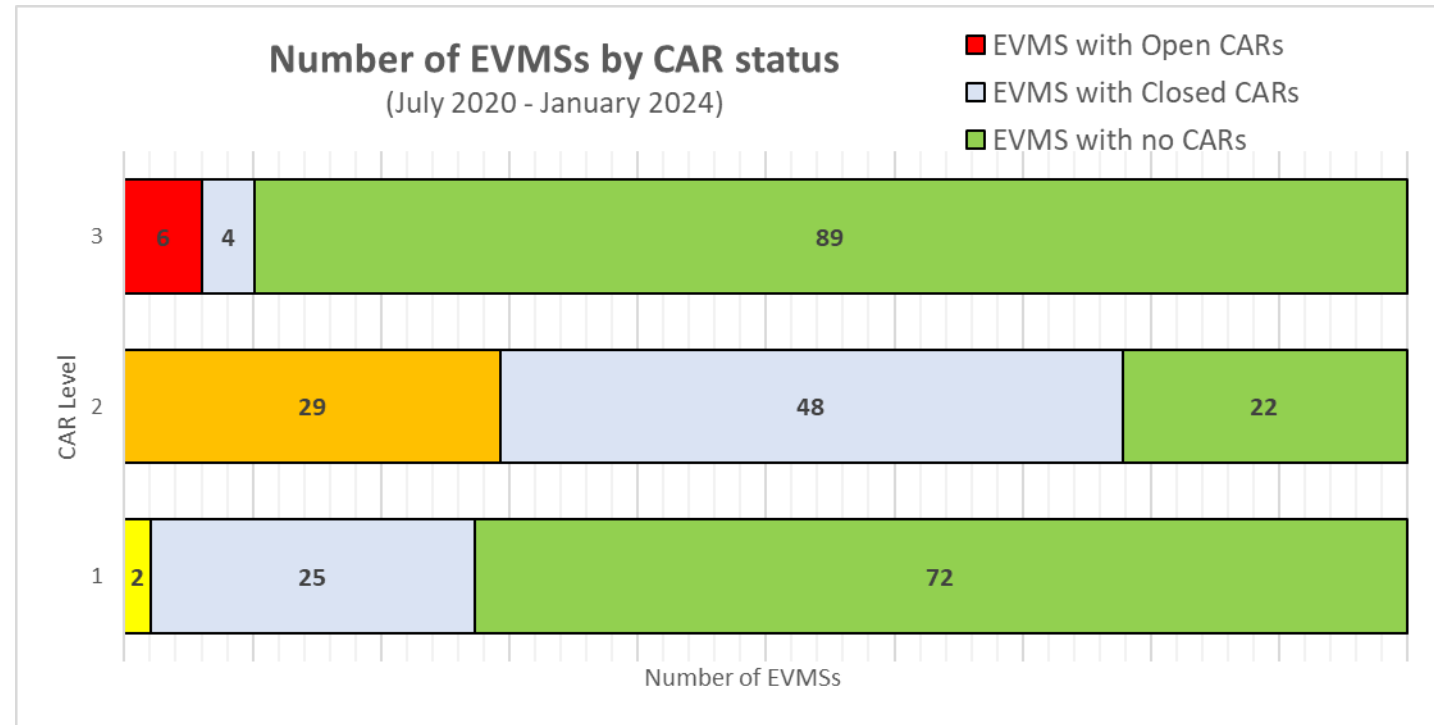- GLs 6, 10, and 27 have the most CARs and represent 30% of all EVMS CARs

Number of CARs by EVMS Guideline and CAR Level
(Data from July 2020 - January 2024)

*Product Data Reporting and Evaluation Program, operated by US Navy and adopted by DCMA in 2018; PDREP Secretary of the Navy Instruction 4855.3 PDF (SECNAVINST 4855.3D PDF)
Navy Standard Operating Procedure 3683 PDF (NAVSO P–3683 PDF)

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DECM – What We're Seeing

DCMA EVMS Center has reviewed 99 different EVMSs from July 2020 – January 2024

- 33 EVMSs have open EVMS CARs
  - 6 EVMSs with Level 3 CARs
  - 29 EVMSs with Level 2 CARs
  - 2 EVMSs with Level 1 CARs

- 50 EVMSs have closed all EVMS CARs

- 16 EVMSs have had 0 EVMS CARs since July 2020

Number of EVMSs by CAR status
(July 2020 - January 2024)

Legend:
- ■ EVMS with Open CARs
- □ EVMS with Closed CARs
- ■ EVMS with no CARs

CAR Level 3: 6 (red), 4 (closed), 89 (no CARs)
CAR Level 2: 29 (orange), 48 (closed), 22 (no CARs)
CAR Level 1: 2 (yellow), 25 (closed), 72 (no CARs)

Number of EVMSs

*Product Data Reporting and Evaluation Program, operated by US Navy and adopted by DCMA in 2018; PDREP Secretary of the Navy Instruction 4855.3 PDF (SECNAVINST 4855.3D PDF)
Navy Standard Operating Procedure 3683 PDF (NAVSO P–3683 PDF)

Most Common EVMS Deficiencies

- GL 6: Schedule integrity

- GL 10: Objective criteria and Quantifiable Backup Data (QBD) traceability

- GL 16: Consistency of performance and actuals

- GL 21: Consistency of performance and actuals on material and material accountability

- GL 23: Control Account (CA) Variance Analysis Reports (VARs) pursuant to requirements in the Earned Value Management System Interpretation Guide (EVMSIG)

- GL 27: Monthly ETC, Comprehensive EAC traceability, and ETC cost (timephasing) and schedule (forecast dates) integration

- GL 29: Reconciling baseline changes

Contact and Further Information

Public EVMS Site

https://www.dcma.mil/HQ/EVMS/

An official website of the United States government   Here's how you know ∨

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HOT TOPICS

November 2022: EVMS Compliance Procedures updated

March 2022: Artificial Datasets revised to re-add Primavera schedule files and results

February 2021: EVMS Business Practices & Attachments updated

December 2021: EVMS Compliance Metrics (v5.0), Metric Tracker, and Artificial data set updated

DCMA Earned Value Management Systems Center

Mission: The EVMS Center contributes to the DOD acquisition process through actionable assessments of contractor effectiveness at supplier facilities, which provides stakeholders with expectations of future performance and potential impacts on individual contractors and/or programs.

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- **BCWP: Budgeted Cost for Work Performed**
- **CAP: Corrective Action Plan**
- **CAR: Corrective Action Request**
- **CCB: Configuration Control Board**
- **CR: Compliance Review**
- **DECM: DCMA EVMS Compliance Metrics**
- **DFARS: Defense Federal Acquisition Regulation Supplement**
- **EAC: Estimate at Complete**
- **EBRT: Event Based Risk Tool**
- **EVMS: Earned Value Management System**
- **EVMSC: Earned Value Management System Center**
- **EVMSIG: Earned Value Management System Interpretation Guide**

- **EVT: Earned Value Technique**
- **GL: Guidelines**
- **IBR: Integrated Baseline Review**
- **IPMDAR: Integrated Program Management Data and Analysis Report**
- **IPT: Integrated Product Team**
- **IV: Initial Visit**
- **LOE: Level of Effort**
- **OUSD(A&S) ADA : Office of the Under Secretary of Defense, Acquisition & Sustainment, Acquisition Data and Analytics**
- **PDREP: Product Data Reporting and Evaluation Program**
- **PM&BI: Portfolio Management and Business Integration**
- **PERT: Program Evaluation and Review Technique**
- **SD: System Description**
- **WP: Work Package**