### DEFENSE CONTRACT MANAGEMENT AGENCY

# **DCMA EVMS Center Update**

Presented By:

# John Ricci

EVMS Center (EVMSC) LM Group (Orlando) Portfolio Management and Business Integration (PM&BI) Directorate September 14, 2023 UNCLASSIFIED



- DCMA EVMSC Mission and Organization
  - Mission & Vision
  - EVMSC Organizational Structure
  - EVMSC Integrated Product Teams (IPTs)
- EVMSC Policy IPT Updates
  - EVMSIG Update
  - PERT Usage Proposal NDIA Clearinghouse
- EVMSC Training IPT Updates
- EVMSC Tools IPT Updates
  - NDIA IPMD Health Metrics Committee Participation
- EVMSC CAR Trend Update
  - CAR Database What We're Seeing

**Talking Points** 



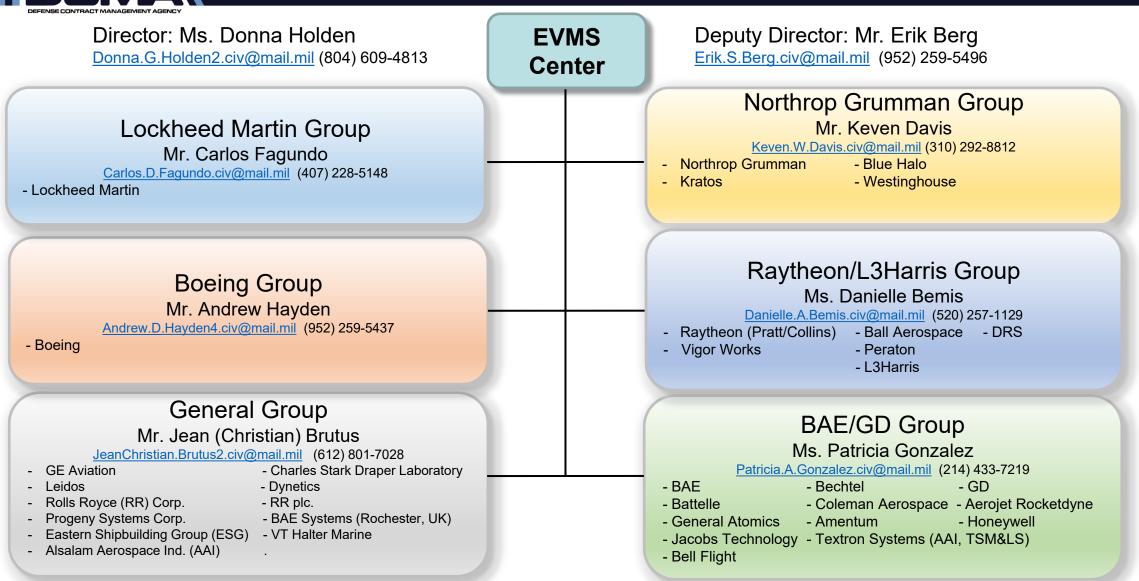
# 55 1 1 **DCMA EVMSC Mission and Organization**

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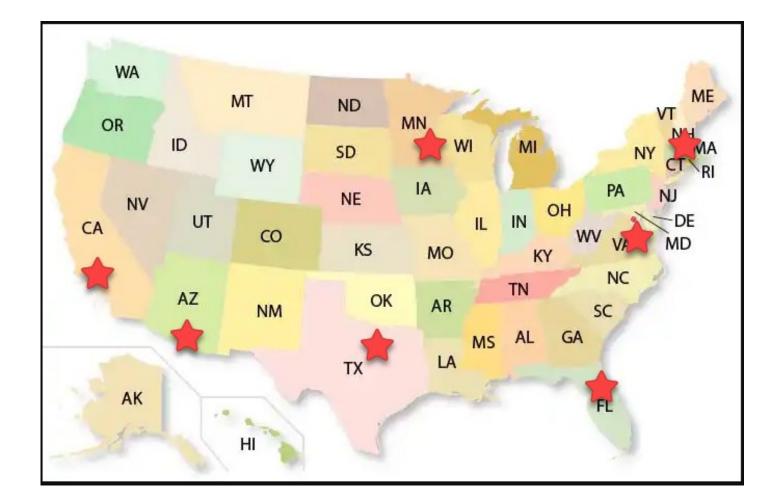
- EVMS Center
  - Mission |The EVMS Center contributes to the DoD acquisition process through actionable assessments of contractor effectiveness at supplier facilities, which provides stakeholders with expectations of future performance and potential impacts on individual contractors and/or programs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



# **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. Lee, VA



# 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 Policy Update

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# **FY23 Summary Updates**



# **Global/Widespread**

- Standardized Roles and Responsibilities
- Risk Approach: PDREP surveillance planning & EBRT implementation
- Added customer survey requirement
- Subcontract language and process refinement
- BP POC changes
- CAP requirements
- 508 Compliance



# **BP Specific**

- BP0 Earned Value Management Systems
  - Removed locations associated with the 6 groups and introduce General EVMS Group
- BP2 EVM System Description Review
  - Included time line for DCMA IAW DFARS 252.234-7002 or NFARS 1852.234-2 contractor request for "Change Review", where DCMA shall advise the Contractor of the acceptability of such changes within 30 calendar days after receipt of the notice of proposed changes from the Contractor

### BP3 – EVMS General Support

- Corrected error in outline numbering
- CAR distribution need to include any CARs to CO

### BP4 – EVMS Surveillance

- Stakeholder communication requirement
- Added general information paragraph
- Enhanced Report section
- Requirement to post evaluate and adjust SSP

### **BP6 EVMS Compliance Review**

- Added DCAA invitation to the CR planning process
- Added narrative noting level III/IV CARs are only to be issued by the CO

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# • Policy IPT Effort

- Update BP2 with more focus on contractor processes
- Revamp BP5 Review for Cause (RFC) and streamline with BP4/BP6 processes to introduce BP5 as Request For Compliance Assessment (RFCA)
- Developing GETs (Guideline Evaluation Templates)
- BP4/BP6 Pre-populated Interview Finding Forms (IFFs) for Guideline Evaluation
- 508 Compliance
- EIA 748 REV. E Crosswalk
- Process Implementation Impact Matrix (PIIM)





### • BP2 - EVM System Description Review Update

- Working Group held January 2023 with DCMA, DOE, Intelligence Community, and Navy Shipbuilding.
  - Goals:
    - Understand how different Government Agencies perform EVM System Description Reviews
    - Develop a revised DCMA Business Practice based on collaborative information gathered
    - Revised process results in like results for DoD organizations responsible EVMS compliance
- Proposed changes:
  - Cross Reference Checklist (CRC) transition to System Description Comment Table
  - Emphasis on contractor process
  - Risk based approach
  - DCMA and Contractor Agreement on EVMS System Description Procedures



### • BP5 - Review for Cause (RFC)

- Updated to be Request For Compliance Assessment (RFCA)
  - RCA is a focused assessment of a contractor's EVMS
  - Stakeholder Initiated
    - Procuring Contracting Officer (PCO)
    - Program Management Office (PMO)
    - DCMA Cognizant Contracting Officer (CO)
    - DCMA CMO Program Integrator (CMO-PI)
    - Nunn-McCurdy Integrated Program Team (IPT)
    - Prime contractor (for subcontractor issues)
  - Initial Assessment
  - Three potential Courses of Action:
    - No immediate Formal Surveillance Warranted
      - No further action or incorporate into scheduled BP4 Event
    - Initiate a Business Practice 4 (BP4) Surveillance Event
      - Results could initiate a BP6 Event
    - Initiate a Business Practice 6 (BP6) Compliance Review Event



- Based on the SSI-113 Guideline Evaluations (GLEs)
- Integrates the EVMSIG three steps for assessing compliance:

As part of compliance assessments, contractors are expected to both explain and demonstrate how the integrated parts of the EVMS are used to comply with the 32 Guidelines. There are three steps for determining compliance:

- Assess whether the contractor's EVM System Description adequately documents the processes and procedures which support how its system meets the intent of the 32 Guidelines.
- Evaluate the contractor's ability to demonstrate the EVMS implementation as described in the System Description and supplemental procedures.
- Ensure the EVMS is providing timely, accurate, reliable, and auditable data. Compliance is determined based upon the results of all three steps.

- Evaluate and Document Individual Guidelines
- Future BP Incorporation

	Gui	deline Evaluatio	n Template
1. Process:	2. Guideline No:	3. Supplier:	4. Program / Contract(s):
Organizing	01	ACME Industries	XXXXXX-YY-C-ZZZZ
5. Guideline:			
		for the program. A Work l, is commonly used in th	Breakdown Structure (WBS), tailored for is process.
<ul> <li>manage</li> <li>The WI</li> </ul>	ement action. BS includes all contract		ract and extends to the level necessary for scope performed by subcontractors and any rations.
6. Process / Ir	nplementation Verific	ation Points:	
internal manag		esented by a hierarchical	riented WBS extended to the level necessary for breakdown of program requirements?
• 140 JL			
7. Compliance	Assessment:		
		as of the latest revision of	late of the EVMSIG? Yes / No
	-		ign with accepted EVM SD? Yes / No
	P		
			~ ·
DCM Form I	Revised: Dec 2027		
DCM Form I	Revised: Dec 2027		
DCM Form I	Revised: Dec 2022		
The contractor		Guideline implementation	as described in the System Description and
The contractor supplemental p	demonstrates EVMS C procedures? Yes / No		
The contractor supplemental p The contractor	demonstrates EVMS C procedures? Yes / No	timely, accurate, reliable,	as described in the System Description and
The contractor supplemental p The contractor Are Deficienci	demonstrates EVMS C procedures? Yes / No 's EVMS is providing t	timely, accurate, reliable, Required? Yes / No	as described in the System Description and
The contractor supplemental p The contractor Are Deficienci	demonstrates EVMS C rocedures? Yes / No 's EVMS is providing t es / Corrective Action 1	timely, accurate, reliable, Required? Yes / No	as described in the System Description and
The contractor supplemental p The contractor Are Deficienci	demonstrates EVMS C rocedures? Yes / No 's EVMS is providing t es / Corrective Action 1	timely, accurate, reliable, Required? Yes / No	as described in the System Description and
The contractor supplemental p The contractor Are Deficiencies	demonstrates EVMS C rocedures? Yes / No 's EVMS is providing t es / Corrective Action 1	imely, accurate, reliable, Required? Yes / No Required:	as described in the System Description and

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# **FY23 Interview Finding Forms (IFFs)**

### • Emphasizes evaluating the process and implementation

- Does the contractor have a process?
- Is the CAM implementing IAW the process?
- Is it repeatable amongst CAMs?
- Is the data timely, accurate, reliable, and auditable?
- Designed to be tailored
- Questions can be modified, added, or deleted

EVMS Compliance Review (CR) Contractor, Location Month YYYY

INTERVIEW #: [Insert interview number] INTERVIEW DATE: [Insert date] CAM NAME: [Insert Control Account Manager Name] TITLE/POSITION: [Insert CAM title or position] AREA OF RESPONSIBILITY: [Insert CAM responsibility] INTERVIEW TEAM LEADER: [Insert interview team lead name] DATE SUBMITTED: [Insert date submitted] TEAM ATTENDEES: [Insert team attendee names] CONTRACTOR ATTENDEES: [Insert contractor attendee names]

PLANNING, SCHEDULING, & BUDGETING

### Guideline 06 Implementation Verification Points and Observations:

6.a. Does the contractor's process require all authorized, time-phased discrete work be reflected in the IMS? Follow-up Required: Yes/No Deficiencies / Corrective Action Required: Yes/No

### SAMPLE Questions / Notes:

How do you know all of you discrete work is represented in the IMS?

Do you have LOE in the IMS?

How is discrete WP ## planned in the IMS?

### Associated DECMS:

06A101a - Does each discrete WP/PP/SLPP have task(s) represented in the IMS and EV Cost Tool? X Result Samples:

 06A102a - Are authorized risk mitigation activities incorporated into the IMS as required by the process instructions?
 X Result Samples:

6.b. Are processes in place that require the scheduling system to be vertically integrated (including subcontractor's schedules as applicable) to ensure there is consistency of data between all levels of the schedule? *Follow-up Required:* Yes/No *Deficiencies / Corrective Action Required: Yes/No* 

SAMPLE Questions / Notes:

How do you receive subcontract status information and how do you update your WP status with that



# **DoD EVMSIG Policy Gap**

DEPARTMENT OF DEFENSE EARNED VALUE MANAGEMENT SYSTEM INTERPRETATION GUIDE



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- DoD EVMSIG Update from Electronic Industries Alliance Standard-748 EVMS (EIA-748) Revision D to Revision E
- Special Project between OUSD(A&S) ADA and DCMA PM&BI EVMSC
- Established DCMA-led EVMSIG Working Group (WG)
  - WG Compliance Authority Members: DCMA, Intelligence Community, and Navy Shipbuilding
- Goals:
  - Restructure existing content from 32 Guidelines to 27 Draft Guidelines
  - Work in parallel with Industry to develop an EVMSIG Policy Gap and DCMA policy documentation
  - Incorporate opportunities for improvement
- DECM Impacts:
  - Renumbering Significant Impact
  - Metric changes Minor Impact



# **Revised Guideline Mapping**

Area	Description	Description EIA 748-D GL		S	AE 748-E GL	Description	Area			
uo	Define the Authorized Work Elements	D01	2.1a	E01	2.1a	Define the Authorized Work Elements	n			
Organization	Define Program Organizational Structure	D02	2.1b	E02	2.1b	Define Program Organizational Structure	Organization			
niz	Integrate Subsidiary Management Processes	D03	2.1c	E03	2.1c	Integrate WBS/OBS to Create Control Accounts	niz			
gal	Identify Overhead Management	D04	2.1d	E04	2.1D	Integrate Subsidiary Management Processes	gal			
ō	Integrate WBS/OBS to Create Control Accounts	D05	2.1e				ō			
-	Scheduling Work	D06	2.2a	E05	2.2a	Scheduling Work	q			
	Identify Products and Milestones for Progress Assessment	D07	2.2b	E06	2.2b	Identify Products and Milestones for Progress Assessment	and			
ы С	Establish the Performance Measurement Baseline	D08	2.2c	E07	2.2c	Establish the Performance Measurement Baseline	ы В			
Scheduling, udgeting	Authorize and Budget by Cost Elements	D09	2.2d	E08	2.2d	Authorize and Budget by Cost Elements				
Scheduli udgeting	Determine Discrete Work and Objective Measures	D10 2.2e		E09	2.2e	Plan work packages and/or planning packages	eti l			
Sch	Sum WP/PP Budgets to Control Account Budget	D11	2.2f		Establish Performance Measurement Criteria / LOE	Planning, Scheduling, Budgeting				
	Level of Effort Planning and Control	D12	2.2g		·		<u></u>			
nir	Establish Overhead Budgets	D13	2.2h	E11	2.2g	Establish Overhead Budgets	<u> </u>			
Planning, B	Identify MR and UB	D14	2.2i	E12	2.2h	Identify MR and UB	an l			
4	Reconcile to Target Costs	D15	2.2j	E13	2.2i	Reconcile to Target Costs	<b>–</b>			
S	Record Direct Costs	D16	2.3a	<b>E</b> 14	2.3a	Assess Progress	ogress sment and			
ng ior	Summarize Direct Costs by WBS Elements       D17       2.3b         Summarize Direct Cost by Organizational Structure Elements       D18       2.3c         Record/Allocate Indirect Costs       D19       2.3d									
Accounting Considerations										
cou										
Aco	Identify Unit and Lot Costs	D20	2.3e				Progress Assessment and Data Collection			
ŏ	Track and Report Material Cost/Quantities	D21	2.3f	$\mathbf{N}$			As a			
	Calculate Schedule Variance and Cost Variance	D22	2.4a	E17	2.4a	Calculate Schedule Variance and Cost Variance				
a ut a	Analyze Significant Variances	D23	2.4b	E18	2.4b	Analyze Significant Variances	ut g			
Analysis and Vlanagement Reporting	Analyze Indirect Cost Variances	D24	2.4c	E19	2.4c	Analyze Indirect Cost Variances	Analysis and Management			
/sis Ige ort	Summarize Performance Data and Variances	D25	2.4d	E20	2.4d	Update CA ETC and Calculate VAC	/sis Ige			
lan ana Rep	Implement Corrective Actions	D26	2.4e	E21	2.4e	Summarize Performance Data and Variances	lar			
Ϋ́́Α	Maintain Estimates at Completion	D27	2.4f	E22	2.4f	Implement Corrective Actions	ĮΑΪ			
		·		E23	2.4g	Maintain Estimates at Completion				
ce	Incorporate Changes in a Timely Manner	D28	2.5a	E24	2.5a	Incorporate Changes in a Timely Manner				
ons ata ian	Maintain Baseline and Reconcile Budgets	D29	2.5b	E25	2.5b	Maintain Baseline and Reconcile Budgets	ons ata			
Revisions and Data aintenano	Control Retroactive Changes	D30	2.5c	<b>E26</b>	2.5c	Control Retroactive Changes	visi A D			
Revisions and Data Maintenance	Prevent Unauthorized Revisions	D31	2.5d	E27	2.5d	OTB / OTS	Revisions and Data			
Ξ̈́Ξ	Document PMB Changes	D32	2.5e		·					
	New		dified	d Dele		Minimal to No Impact				
	DIS	TRIBUTIO	ON STATEN	l for public release. D	istribution is	unlimited.				





# • Timeline

- Baseline Policy GAP draft– Completed June 2023
  - Restructured existing 2019 revision into 748E GLs
- EVMSIG WG Initial Review Completed July 2023
  - Reviewed June 2023 Restructure Draft
- EVMSIG WG Action Item Review Ongoing Bi-weekly
  - EVMSIG Policy Gap Refinement and Improvement Opportunities
- EVMSIG WG System Description Section Draft September 2023
- Final DoD EVMSIG Policy Gap submission to ADA dependent on NDIA / SAE 748E Issuance



# -. **PERT Usage Proposal NDIA Clearinghouse**

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### Unrestricted Content

PERT (Program Evaluation Review Technique) Cost Earned Value Technique has traditionally been used for less risky elements of an EVMS implementation. In both the DCMA and DOE guidance the use of PERT is restricted to non-critical, low-value material only. The NDIA IPMD recommends that consideration is given to broadening the use of PERT Cost beyond the current restrictions because it will generally provide better status information than either Level of Effort or purely subjective Percent Complete.

To be clear, PERT Cost should never be a substitute for objective measurement techniques. However, on many projects with a large amount of LOE (such as Operation and Maintenance, or Services) its application will have the advantage of communicating useful information.



- The EVMSIG uses the example of PERT cost formula Earned Value Technique (EVT): "is only appropriate for high quantity, low-value and low-risk material items (e.g., material that is consumable such as bolts, fasteners, welding rods, etc.)."
- The EVMSIG does not specifically prohibit or describe the use of a formulaic calculation of BCWP for labor as described in the NDIA clearinghouse PERT Usage Memo ("labor in certain circumstances historically measured as LOE" (Level of Effort).
- The DCMA EVMS Center position on the use of PERT for other than low value material is that the use be strongly controlled and clearly defined in the supplier EVMS Description (EVMSD).
- The use of a discrete EVT should be considered prior to the use of the PERT EVT for other than low value material.



# PERT Usage for LOE Labor (cont.)



- The use of PERT should be integrated into the EVT determination process to ensure authorized work activities meet requirements for using PERT as an EVT for non-low value material tasks historically assigned an LOE EVT. Work Packages (WPs) identified as PERT must be identifiable and traceable throughout the EVMS and consideration should be given to assess impacts across other process areas.
- A Percent Complete EVT should not be "purely subjective". The EVMSIG states "discrete work packages...must be objectively measured...longer duration work packages have interim objective measures...".
- The Estimate At Completion (EAC) should be evaluated, managed, updated, and controlled in a very strict manner to ensure better performance management, not masking performance management – to include detailed, authorized justifications.
- In order to prevent inaccurate performance measurement, Level of Effort (LOE) budget needs to be
  proactively managed and time phased to align when work will be accomplished.
- An additional DCMA EVMS Compliance Metric (DECM) may be required in order to test the use of the PERT EVT for other than low value material.



# **EVMSC Training Integrated Product Team (IPT)**

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- 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 is in the process of expanding training opportunities within Defense Acquisition University, with plans for offerings anticipated to the wider Department for Fiscal Year 2025



# NDIA IPMD Health Metrics Committee Participation

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- DCMA recently completed data improvement process
  - Input process was improved to ensure data consistency
  - Data structure was changed so that data collected aligns with the desired analysis
  - Developed a tool to allow easy analysis of live data
- Threshold analysis of outliers
  - distributions of X/Y results are abnormal for their threshold
  - metric results are disproportionately within or above threshold
  - extreme rates in terms of yielding CARs or not



# Threshold Comparison by Distribution

- Investigating:
  - High out-of-threshold (OOT) with low CAR: raise the threshold?
  - Low OOT with high CAR ratio: lower the threshold?
  - Metrics whose distribution of data points looks more like those of another threshold



- Very low (or zero) OOT metrics

<u>Question we are asking</u>: Does the distribution of a metric look out of place compared to others in its threshold/look more like another threshold?</u>

# Threshold Comparison by Distribution



DU DECN

Total		0.000	0.00	0.00	0.00	1.158	0.027	0.017	84	548	0.13	27	0.04	3.11
23A101a	X/Y ≤ 2%	0.000	0.00	0.00	0.11	1.000	0.118	0.067	22	58	0.28	14	0.18	1.57
16A101a	X/Y ≤ 1%	0.000	0.00	0.00	0.00	1.158	0.075	0.071	11	51	0.18	4	0.06	2.75
06A506c	$X/Y \le 1\%$	0.000	0.00	0.01	0.02	0.250	0.018	0.001	44	94	0.32	8	0.06	5.50
10A302b	X/Y ≤ 2%	0.000	0.00	0.00	0.00	0.132	0.002	0.000	3	110	0.03			Infinity
19A401a	X/Y ≤ 1%	0.000	0.00	0.00	0.00	0.015	0.001	0.000	3	29	0.09	1	0.03	3.00
10A302a	X/Y ≤ 2%	0.000	0.00	0.00	0.00	0.104	0.001	0.000	1	110	0.01			Infinity
11A101a	$X/Y \le 1\%$	0.000	0.00	0.00	0.00	0.000	0.000	0.000	0	96	0.00			NaN
DECM	Threshold	XY_min	XY_Q1	XY_Q2	XY_Q3	XY_Max	XY_mean	XY_var	OOT	NoOOT	pctOOT	CAR	pctCAR	ratioOOTCAR

0.000	0.44	0.67	0.77	1.000	0.504	0.075	121	50	0.00	25	0.17	4.04
	0.44	0.07	0.77	1.000	0.584	0.073	121	30	0.80	25	0.17	4.84
0.000	0.00	0.00	0.44	1.000	0.231	0.132	90	208	0.30	48	0.16	1.88
0.000	0.00	0.00	0.21	1.000	0.177	0.095	41	96	0.30	22	0.16	1.86
0.000	0.00	0.00	0.03	1.010	0.098	0.062	284	1457	0.16	127	0.07	2.24
0.000	0.00	0.00	0.01	1.077	0.090	0.061	508	2375	0.18	173	0.06	2.94
0.000	0.00	0.00	0.00	1.000	0.032	0.020	26	278	0.09	14	0.05	1.86
0.000	0.00	0.00	0.01	1.158	0.022	0.015	58	270	0.18	13	0.04	4.46
XY_min	XY_Q1	XY_Q2	XY_Q3	XY_max	XY_mean	XY_var	OOT	NoOOT	pctOOT	CAR	pctCAR	ratioOOTCAR
	0.000 0.000 0.000 0.000 0.000	0.000         0.00           0.000         0.00           0.000         0.00           0.000         0.00           0.000         0.00           0.000         0.00           0.000         0.00	0.000         0.00         0.00           0.000         0.00         0.00           0.000         0.00         0.00           0.000         0.00         0.00           0.000         0.00         0.00           0.000         0.00         0.00           0.000         0.00         0.00	0.000         0.00         0.00         0.01           0.000         0.00         0.00         0.00           0.000         0.00         0.00         0.00           0.000         0.00         0.00         0.01           0.000         0.00         0.00         0.01           0.000         0.00         0.00         0.03           0.000         0.00         0.00         0.21	0.000         0.00         0.00         0.01         1.158           0.000         0.00         0.00         0.00         1.000           0.000         0.00         0.00         0.00         1.000           0.000         0.00         0.00         0.01         1.077           0.000         0.00         0.00         0.03         1.010           0.000         0.00         0.00         0.21         1.000	0.000         0.00         0.00         0.01         1.158         0.022           0.000         0.00         0.00         0.00         1.000         0.032           0.000         0.00         0.00         0.01         1.077         0.090           0.000         0.00         0.00         0.03         1.010         0.098           0.000         0.00         0.00         0.21         1.000         0.177	0.000         0.00         0.00         0.01         1.158         0.022         0.015           0.000         0.00         0.00         0.00         1.000         0.032         0.020           0.000         0.00         0.00         0.01         1.077         0.090         0.061           0.000         0.00         0.00         0.03         1.010         0.098         0.062           0.000         0.00         0.00         0.21         1.000         0.177         0.095	0.000         0.00         0.00         0.01         1.158         0.022         0.015         58           0.000         0.00         0.00         0.00         1.000         0.032         0.020         26           0.000         0.00         0.00         0.01         1.077         0.090         0.061         508           0.000         0.00         0.03         1.010         0.098         0.062         284           0.000         0.00         0.21         1.000         0.177         0.095         41	0.000         0.00         0.00         0.01         1.158         0.022         0.015         58         270           0.000         0.00         0.00         0.00         1.000         0.032         0.020         26         278           0.000         0.00         0.00         1.077         0.090         0.061         508         2375           0.000         0.00         0.00         0.03         1.010         0.098         0.062         284         1457           0.000         0.00         0.21         1.000         0.177         0.095         41         96	0.000         0.00         0.00         0.01         1.158         0.022         0.015         58         270         0.18           0.000         0.00         0.00         0.00         1.000         0.032         0.020         26         278         0.09           0.000         0.00         0.00         1.077         0.090         0.061         508         2375         0.18           0.000         0.00         0.00         0.03         1.010         0.098         0.062         284         1457         0.16           0.000         0.00         0.00         0.21         1.000         0.177         0.095         41         96         0.30	0.000         0.00         0.00         0.01         1.158         0.022         0.015         58         270         0.18         13           0.000         0.00         0.00         0.00         1.000         0.032         0.020         26         278         0.09         14           0.000         0.00         0.01         1.077         0.090         0.061         508         2375         0.18         173           0.000         0.00         0.03         1.010         0.098         0.062         284         1457         0.16         127           0.000         0.00         0.21         1.000         0.177         0.095         41         96         0.30         22	0.000         0.00         0.00         1.000         0.032         0.020         26         278         0.09         14         0.05           0.000         0.00         0.00         0.01         1.077         0.090         0.061         508         2375         0.18         173         0.06           0.000         0.00         0.00         0.03         1.010         0.098         0.062         284         1457         0.16         127         0.07           0.000         0.00         0.21         1.000         0.177         0.095         41         96         0.30         22         0.16

Across all DECMs, the ratioOOTCAR average is 2.67 OOT per CAR.

Example: metric 23A101a has a threshold of X/Y ≤ 2%, but its distribution of X/Y results are more inline with 5% and 10% thresholds.

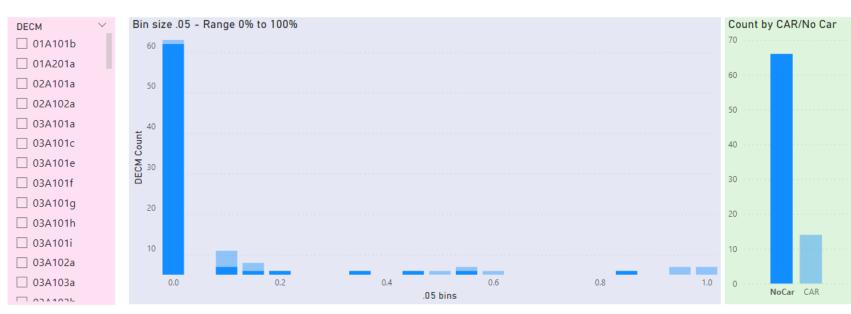
XY\_min: minimum value XY\_Q1: 1<sup>st</sup> quartile XY\_Q2: 2<sup>nd</sup> quartile (also the median) XY\_Q3: 3<sup>rd</sup> quartile XY\_max: maximum value XY\_mean: average (mean) XY\_var: variance OOT: Out of Threshold NoOOT: Not Out-of-Threshold pctOOT: % that were OOT CAR: metrics that led to a Corrective Action Request (CAR) pctCAR: % of DECMs that led to a CAR ratioOOTCAR: this is OOT/CAR.

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# Threshold Comparison by Distribution

DECM Count Threshold XY\_min XY\_Q1 XY\_Q2 XY\_Q3 XY\_Max XY\_mean XY\_var OOT NoOOT pctOOT CAR pctCAR ratioOOTCAR 23A101a 80 X/Y ≤ 2% 1.000 22 0.000 0.00 0.00 0.11 0.118 0.067 58 0.28 14 0.18 1.57



DECMs with thresholds  $X/Y \le 1\%$  or  $X/Y \le 2\%$  typically yield many small values below 2% which is intuitively what you'd expect.

In this case there are only 2 DECMs between 0% and 10% and a wide dispersion of higher X/Y values.

Since this is a count of Control Accounts, it would take very specific case (numerator 1, denominator 50+) for the 2% threshold to come into play.

Metric	Definition	Are required VARs being generated for control accounts and SLPPs that exceed established internal thresholds?
23A101a		
Threshold	X-value	X = Count of incomplete control accounts and SLPPs missing VARs where required
X/Y ≤ 2%	Y-value	Y = Total count of incomplete control accounts and SLPPs requiring VARs

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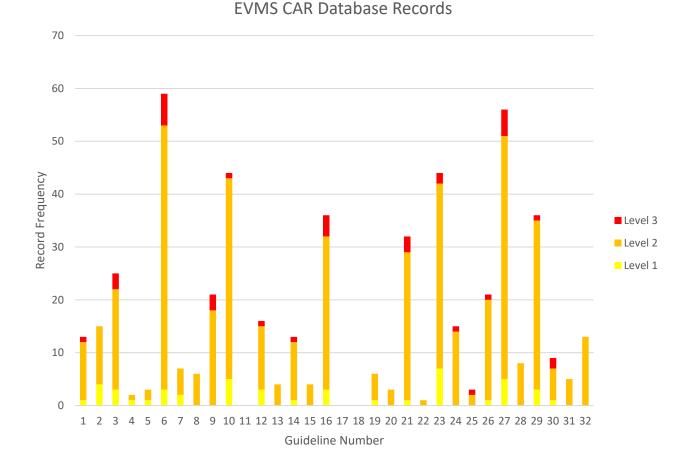


# ----**EVMSC CAR Trend Update**

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- Use Case (data as of 29 August 2023)
  - DCMA CAR database (PDREP\*) 520 EVMS records (46 Level I, 438 Level II, and 36 Level III)
  - **GLs 6, 10, 23, and 27** represent **39%** of all records
  - 48 out of 142 Metrics focus on GLs 6, 10, 23, and 27
  - At least 30 out of 48 are fully/partially automatable



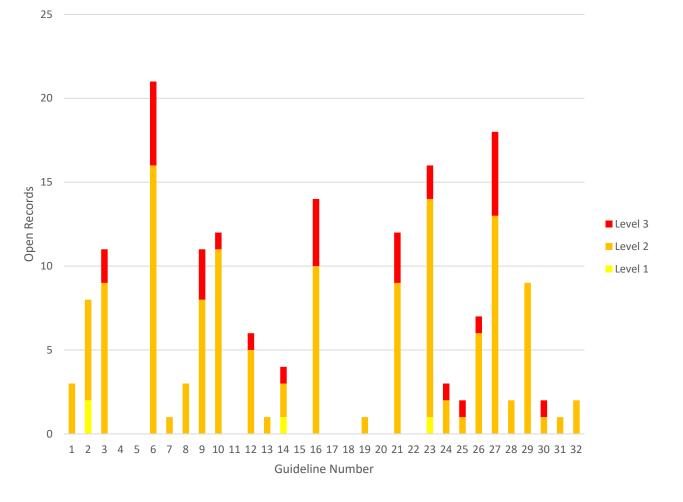
\*Product Data Reporting and Evaluation Program, operated by US Navy and adopted by DCMA in 2018; <u>PDREP Secretary of the Navy Instruction</u> <u>4855.3 PDF (SECNAVINST 4855.3D PDF)</u> <u>Navy Standard Operating Procedure 3683 PDF (NAVSO P–3683 PDF)</u>

# **DECM – What We're Seeing**



- 170 Open CAR Records
  - 4 Level 1
  - 135 Level 2
  - 31 Level 3
- Level 1 & 2 typically 1 GL per CAR
- Level 3 may have more GLs per CAR
  - 31 Open Records are from 6 Open Level 3 CARs
- 35 Systems have open EVMS CARs

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



**EVMS CAR Database Records** 



**Contact and Further Information** 

# **Public EVMS Site**

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

<b>***</b>	An official website of the United States government Here's how you know ~	
	ACQUISITION INSIGHT @ GLOBAL ENGAGEMENT	
	DEFENSE CONTRACT MANAGEMENT AGENCY	
	POLICIES ABOUT US V NEWS V CAREERS V DCMA 0365 EMPLOYEES V E-BUSINESS V IWMS V CUSTOMERS V ETOOLS SMALL BUSINESS	
	HOME > HQ > EVMS	
	***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.	

### Contact EVMS Center Team: dcma.gregg-adams.hq.mbx.dcma-pix-evms-center@mail.mil

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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

Acronyms