

#### DCMA EVMS DISCUSSION

August 26, 2015





## Value for Money - Transforming How DCMA Executes Its DFARS EVMS Compliance Mission

- Influence industry partners to field effective (and efficient) EVMS that are compliant with the 32 ANSI-748 guidelines
- Improving Program Management (decision making) by the way we think about (and use) EVMS data



#### **BBP 3.0 FOCUS AREA #4**

- FY2015 USD(AT&L) Study: Eliminating Requirements Imposed On Industry Where Costs Outweigh Benefits Identified A Number Of DCMA EVMS Mission Areas For Improvement
- Key Initiatives BBP 3.0 Eliminate Unproductive Processes and Bureaucracy Actions:
  - DCMA will expand "Data-Driven EVM Systems Streamlining Pilot" to conduct streamlined compliance reviews and system surveillance at three additional contractor facilities by October 2015
  - DCMA will provide an actionable plan to assess the benefits of streamlining its EVMS operations and centralizing its EVMS competency to improve consistency of EVMS implementation by Sept. 2015



#### **DCMA STRATEGIC PLAN 2015-2020**

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- Objective 1.3: Modernize contractor oversight methods and practices to maximize effectiveness while reducing industry cost of compliance
  - Initiative 1.3.2.1: Revise our current policy and CONOPS to streamline how we conduct the EVMS mission (Compliance, Surveillance, and Analysis) and target cost savings of 10%
    - Effectiveness and efficiency of the DCMA DFARS EVMS mission is maximized through the coupling and physical integration of strategy and execution
      - Flattens the organization structure, reduces head count and costs
      - Adopts the agile approach to EVMS compliance oversight through simultaneous collaboration through the integration of strategy and execution resulting in adaptive planning, evolutionary development, early delivery, continuous improvement, and rapid and flexible response to change

#### Results!



- EVAS Demonstrated ability to automate 60 of 163 test metrics utilizing existing supplier data (PARCA EVM CR)
- Working with PARCA to establish no-low cost method to obtain additional supplier EVMS (system) data from EVM Central Repository using IPMR Formats 6 and 7
- Lockheed Martin replicating automated, data driven compliance approach across all business sectors
- Data driven compliance approach leading to company business re-engineering efforts leading to reductions in contract overhead and direct costs for EVMS implementation (e.g., BAE Systems, UK)



# Earned Value Management System Interpretation Guide (EVMSIG)

DCMA role for executing compliance and implementing remains unchanged by the OSD EVMSIG as stipulated:

- Section 1.2: "...when DoD is the cognizant federal agency, the Defense Contract Management Agency (DCMA) is responsible for determining EVMS compliance."
- Section 1.1: "... agencies and organizations charged with conducting initial and continuing EVMS compliance activities will establish amplifying agency procedures and/or guidance to clarify how the respective agencies and organizations are implementing this guide to include the development of evaluation methods for the attributes associated with each of the 32 guidelines."

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#### Lockheed Martin Aero, Ft. Worth, TX (BAE Systems, UK)

- Entering Stage 4
- LMC replicating data driven approach across business sectors
- BAE building capability to execute and evaluate automated metrics through its own toolset - 89 of 102 automated metrics completed
- Site Visit 14-17 September 2015
- Special Focus: Major Subcontract Integration

#### General Dynamics Electric Boat, Groton, CT

- Entering Stage 3, Site Visit 21-24 September 2015
- Special Focus: Shipyard Construction Application

# • Raytheon Missiles Systems, Tucson, AZ

- Entering Stage 3, Site Visit 14-17 September 2015
- Special Focus: Automation of Accounting GLs

#### Textron Land and Marine Systems, New Orleans, LA

- Entering Stage 3, Site Visit 17-20 August 2015
- Textron considering data driven approach across business systems
- Special Focus: Rework of Compliance Review Checklist (CRC)



#### DATA DRIVEN EVMS PILOT STAGES

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# Stage 1

- Identify Supplier and Location
- Identify and Assemble Government Pilot Team

## Stage 2

- Prepare and Train Government and Supplier Pilot Team
- Assignments and Responsibilities

### Stage 3

- Deploy @ Supplier Site
- ~12-14 Months

Technology Solution
In Place To Accommodate
Remote Monitoring



 Transition to Remote

**Monitoring** 

• ~6-8 Months

- Stage 5
- Close out Pilot
- Go Live



#### **IPMR F6 – Data Elements**

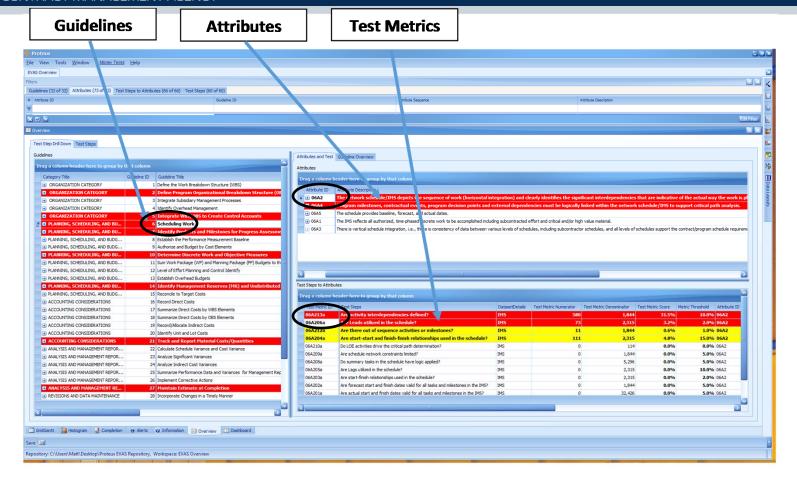
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06A101a	Activity ID	Activity Description	Baseline Start Date	Baseline Finish Date	Actual Start Date	X Actual Finish Date	Early Start Date	Early Finish Date	Late Start Date	Late Finish Date	Start Date	Finish Date	Expected Finish Date	Total Float	Activity Type	X Task Type	Task Hours	Predecessors	Successors	Relationship Type	Percent Complete	Deadline	Constraint Type	Constraint Date	Baseline Duration	IMP Code	Critical Path	Status Date	(month/day/year)
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06A212a	Χ					Χ												Χ	Χ	Χ									
06A213a	X					Χ														Χ									
06A301a																													
06A501a	Χ		Χ	Χ		Χ		Χ							Χ														
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06A503a																													
	Χ				Χ																								
06A504b	Χ					Χ																							
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06A505b	Χ					Χ									Χ						Χ								



#### **EVAS Screenshots**

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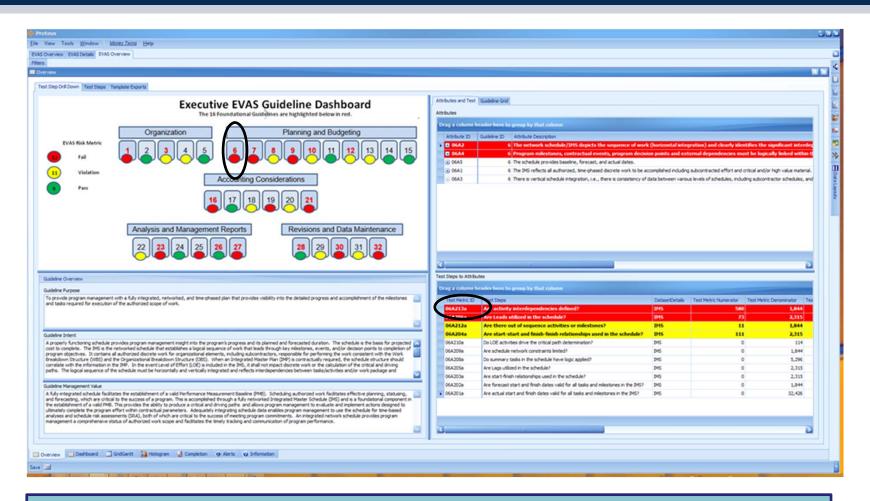
**Drill down through Guidelines to Attributes to Test Metrics** 

Metric ID	Test Steps	s	Test Scor	Threshold	Test Result	Test Parts	Part Values	Part Tests
ENSE	CONTRACT MANAGEMENT AGE	:NCY	0.0%	5.0%	Pass	Numerator	0	X = # of summary tasks with logic applied (Number of Predecessor > 0 or
								Number of Successor > 0)
						Denominator	5,296	Y = total # of summary tasks
06A209a	Are schedule network constraints limited?	06A2	0.0%	5.0%	Pass	Numerator	0	X = # of incomplete tasks and milestones with Hard Constraints
						Denominator	1,844	Y = total # of incomplete tasks and milestones
06A210a	Do LOE activities drive the critical path determination?	06A2	0.0%	0.0%	Pass	Numerator	0	X = # of LOE activities on the critical path
						Denominator	114	n/a
06A212a	Are there out of sequence activities or milestones?	06A2	0.6%	1.0%	Violation	Numerator	11	X = # of activities and milestones statused out of sequence
		-	-	-		Denominator	1,844	Y = total # of incomplete activities and milestones
06A213a	Are activity interdependencies defined?	06A2,	31.5%	10.0%	Fail	Numerator	580	X = # of incomplete activities (tasks and milestones) with either missing
		06A4						predecessors or missing successors
					<del>-</del>	Denominator	1,844	Y = total # of incomplete activities (tasks and milestones)
06A501a	In the IMS, do all of the tasks have baseline	06A5	0.2%	5.0%	Violation	Numerator	70	X = # of tasks and milestones without baseline dates
	start and baseline finish dates?							
						Denominator	32,426	Y = total # of tasks and milestones
06A502a	In the IMS, do all of the tasks with an actual start	06A5	0.5%	5.0%	Violation	Numerator	121	X = # of tasks with an actual start (in progress) without an expected finish date
	have an expected finish?							
						Denominator	25,623	Y = total # of tasks
06A504a	Are actual start dates changed after first reported?	06A5	0.0%	10.0%	Pass	Numerator	0	X = # of activities where actual start date ? previously reported actual start date
					1	Denominator	24,470	Y = # of activities with actual start dates
06A504b	Are actual finish dates changed after first reported?	06A5	0.0%	10.0%	Pass	Numerator	0	X = # of activities where actual finish date ? previously reported actual finish date
00A3040	Are actual finish dates changed after first reported:	00A3	0.0%	10.0%	1 455	Denominator	24,349	Y = # of activities with actual finish dates
						Denominator	24,347	1 - # Of detivites with detail films dates
06A505a	In the IMS, do all of the tasks have actual start dates?	06A5	0.0%	5.0%	Pass	Numerator	0	X = # of tasks with % Complete > 0 with no actual start dates
					•	Denominator	25,623	Y = total # of tasks
					1		Lo	V # Studenide (Complete 100 (C
06A505b	In the IMS, do all of the tasks have actual finish dates?	06A5	0.0%	5.0%	Pass	Numerator	0	X = # of tasks with % Complete = 100 % with no actual finish dates



#### **EVAS Screenshots**

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#### **Executive EVAS Guideline Dashboards**