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DCMA 14-Point Assessment: Using Deltek Acumen for Compliance Analysis

September 2019





Before You Begin

Advanced Metrics and Reporting in Acumen 8.5

It has taken many enhancements in Acumen over the years to satisfy the DCMA's newest and ever changing metrics for measuring performance and compliance of integrated cost and schedule. These metrics were formerly called EVAS/DDM. They are now called DECM for DCMA EVM Compliance Metrics. This presentation will describe some of the more advanced features in Acumen metrics that anyone can use in their metrics and reports.

Agenda

- 1. DCMA 14 Point Assessment
- 2. DCMAs new DECM Assessment
- 3. Advanced Capabilities in Metrics
- 4. Q&A



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DCMA 14 Point



DCMA 14 Point

- » Now getting old (20 years?)
- » For activities in the baseline, this looks at :
- 1. Logic
- 2. Leads
- 3. Lags
- 4. Relationship Types
- 5. Hard Constraints
- 6. High Float
- Negative Float
- High Duration
- 9. Invalid Dates
- 10. Resources
- 11. Missed Tasks
- 12. Critical Path Test
- 13. Critical Path Length Index (CPLI)
- 14. Baseline Execution Index (BEI)

DCMA Update

- DCMA moved from 14 points to EVAS to DECM which has currently 141 metrics that look at everything from basic schedule quality to cost/schedule integration to how well your accounting system matches your EVMS.
- Guideline 6 looks at Planning and covers most of the original metric areas although they got rid of some.
- DCMA experience with 14 point assessment:
 - Drove bad behavior rather than proper planning people added logic to beat the metric rather than spending the time to get the logic right.
 - They are having the terminology removed from current PASEG (Planning and Scheduling Excellence Guide)

DECM Guideline 06 - Planning

06A101a	Does each discrete WP, PP and SLP have task(s) represented in the IMS?	06A401a	Does the schedule tool produce a critical path that represents the longest total duration with the least amount of total float?
06A102a	Are authorized risk mitigation activities incorporated into the IMS as required by the process instructions?	06A401b	Are key contractual milestones and events identified in the IMS?
06A204b	Are there open starts or finishes ("dangling logic") in the schedule?	06A501a	In the IMS, do all of the tasks/activities & milestones have baseline start and baseline finish dates?
		06A504a	Are actual start dates changed after first reported?
06A205a	Are lags used in the schedule?	06A504b	Are actual finish dates changed after first reported?
06A208a	Do summary tasks in the schedule have logic applied?	06A505a	Do all in progress activities have actual start dates?
06A209a	Are schedule network constraints limited?	06A505b	Do all complete tasks/activities have actual finish dates?
06A210a	Do LOE tasks/activities have discrete successors?	06A506a	Are actual start and actual finish dates valid for all tasks/activities & milestones in the IMS?
		06A506b	Are forecast start and finish dates valid for all tasks/activities
06A211a	Is high float rationale/justification acceptable?		& milestones in the IMS?
06 4 24 2 6	ro there out of coguence tacks/petivities ? milestones?	06A506c	
06A212a	Are there out of sequence tasks/activities & milestones?		IMS for two consecutive months?
06A301a	Are lower level baseline and forecast dates traceable to, and not outside, the corresponding higher level dates in the IMS?	06l101b	Do schedule margin tasks represent risk impact to subsequent significant events/milestones?
06A301b	Does the IMS baseline finish date align with contractual/CLIN finish (POP) date?	06l201a	Are Schedule Visibility Tasks (SVTs) identified and controlled in the IMS?



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DCMA DECM Assessment

Formerly known as EVAS

DECM vs 14 Points

- » More than half of DECM metrics require manual input to compare either contract, SOW or System Description to how the work is organized and managed
- » More data (61 artifacts) used in the DECM metrics:
 - » 02 Accounting/Fiscal Calendar
 - » 03 EVM System Description
 - » 04 Contract Statement of Work
 - » 05 Contract Work Breakdown Structure Dictionary

- » 06 Contractual Documents
- » 07 Organization Breakdown Structure
- » 08 Control Account Plans
- » 09 Work Authorization Documentation (WAD)
- » 10 Integrated Master Plan
- » 11 Integrated Master Schedule (IMS)
- » 12 Program Critical Path
- » 13 EV Cost Tool Data

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Advanced Capabilities in Metrics



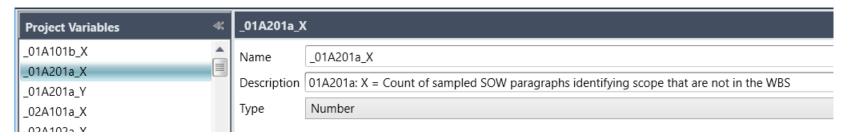
FUSE Enhancements to support DECM

- » Project Variables
- » Calculated Fields
- » Control Account and Work Package Data
- » WAD Data
- » Reports and the Publish flag

Project Variables

- » DECM has many metrics that are all or part manual.
- » Project Variables allow you to enter user value for each project/snapshot and use those in metrics.
- » E.g. DECM Metric 01A201a Complete SOW in WBS (M)
 - » X = Count of sampled SOW paragraphs identifying scope that are not in the WBS
 - » Y = Total count of sampled SOW paragraphs identifying scope.
 - » Threshold X/Y = 0%

» Define project variables



- » Define the metric to use them
 - » IF(_01A201a_X < 0, -0.01, IF((_01A201a_X < _01A201a_Y), (_01A201a_X / _01A201a_Y), -0.01))</pre>

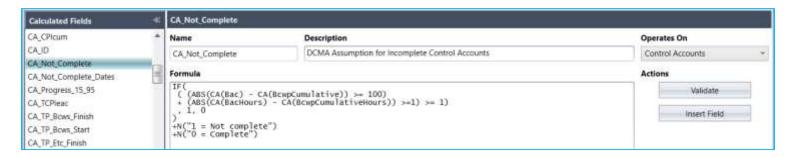
Calculated Fields

- Calculated fields were added as a way to rollup or down, values between Activities, Work Packages and Control Accounts
- » Calculated fields are defined at a level, Activities, Work Packages and Control Accounts
- » Calculated fields use Excel formulas just like metrics and have access to any Excel function plus fields at the level they are defined.



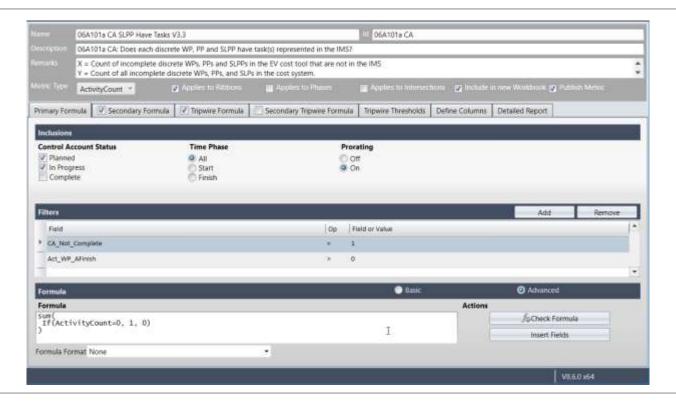
Calculated Fields

- » Calculate Fields allow you to put logic in once place and use it in multiple places in either filters or formulas.
- » This a DECM assumption about Control Accounts



» It is used in many metrics providing reuse of code

Calculated Fields

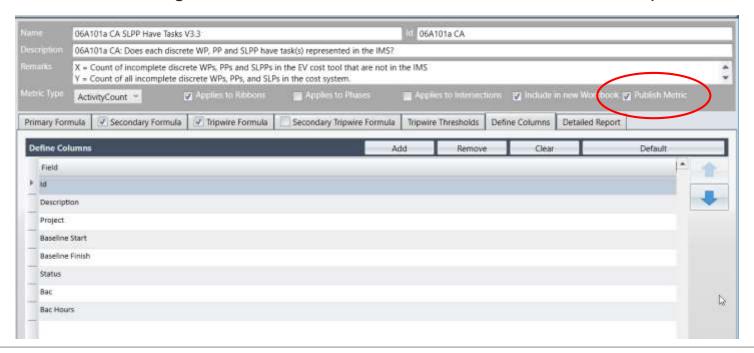


Control Account, Work Package and WAD Data

mport Cost Data You can load Cost Data, CA/WP, from Cobra DCDE files or Cost Data Import Wizard a Deltek CSV formats Activities - SHIP2 WA Filters Gantt Chart Timeline Description Start Finish The╣ 12/15/2020 SHIP2 SHIP2 Project 1/1/2020 206d Q1 20 G2 20 Q3 20 C14 20 1.1.1 / 1.ENG.CLARK Key Plans cost 1.1.1.1 Develop Hull Syste. 1.1.1.1 Develop Hull Syste. 1/1/2020 3/24/2020 1.1.1.2 Develop Propulsio. 5/19/2020 1.1.1.3 Develop Mission S. 36d 7/8/2020 1.1.3 / 1.ENG.CLARK 3D Modeling 1.1.1 / 1.ENG.CLARK - Key Plans Resource Assignments Risk Events Control Accounts / Work Packages Elements Of Cost WAD Status Cobra Status Relationships **Duration Uncertainty** Cast Cobra Cost General Cost Uncertainty 1.1.1 / 1.ENG.CLARK Description Key Plans Project 5HIP2 1.1.1: Key Plans Control Account OBS 1.ENG.CLARIC: Clark's Engineering Team Cancel Manager JACK

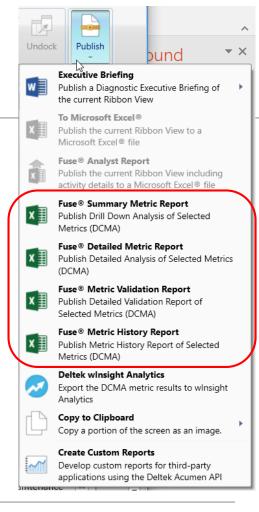
Reports and the Publish flag

» We added a Publish flag to metrics in 8.0 and control over what fields are published.

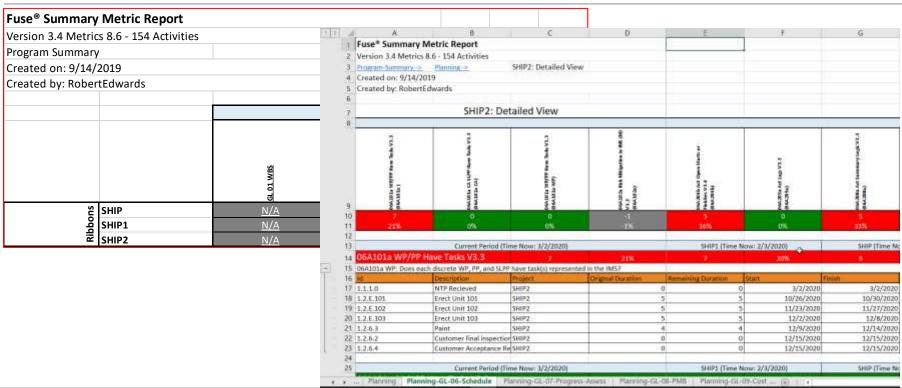


Reports and the Publish flag

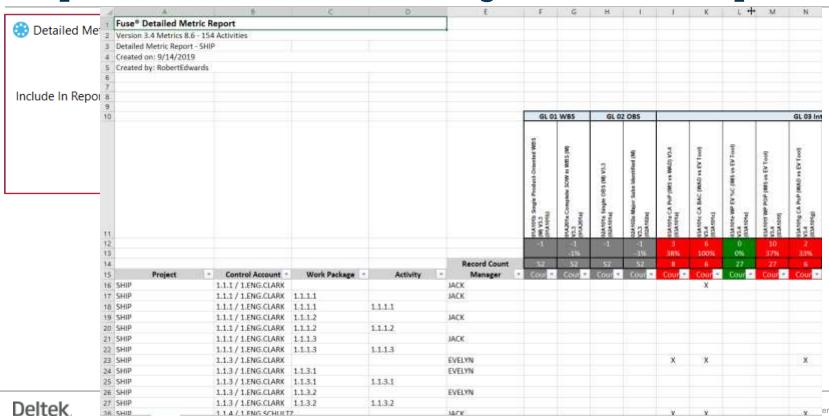
- » New reports use the publish flag to determine what to include
 - » Fuse Summary Metric Report
 - » Fuse Detailed Metric Report
 - » Fuse Metric Validation Report
 - » Fuse Metric History Report



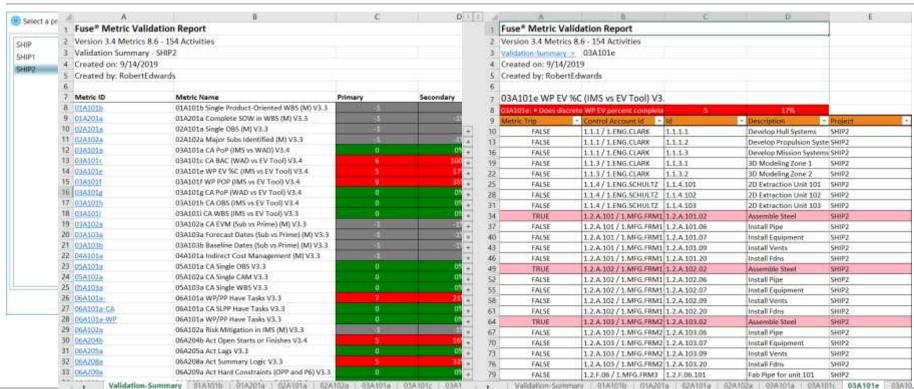
Reports and the Publish flag – Summary Report



Reports and the Publish flag – Detailed Report



Reports and the Publish flag - Validation Report



Reports and the Publish flag - History Report

