

EVMS Test Metric Specification

1. **GUIDELINE NO:**
06

2. **TEST METRIC ID:**
06A301a

3. **TEST TYPE:**
Manual

4. **ATTRIBUTE/INTENT DEFINITION:**
06A3: There is vertical schedule integration, i.e., there is consistency of data between various levels of schedules, including subcontractor schedules, and all levels of schedules support the contract/program schedule requirements (e.g., Statement of Work, Design Build Specification, Integrated Master Plan (IMP) etc.).

5. **TEST DEFINITION:**
Are lower-level baseline and forecast dates traceable to the corresponding higher level dates in the IMS?

6. **TEST METRIC:**
X = Count of sampled incomplete lower-level schedule tasks/activities & milestones that are not traceable to the corresponding IMS baseline and forecast start or finish dates
Y = Total count of sampled incomplete lower-level schedule tasks/activities & milestones

7. **METRIC THRESHOLD:**
 $X/Y = 0\%$

8. **DATA ELEMENTS REQUIRED:**
 - 03 EVM System Description
 - 11 Integrated Master Schedule
 - 11A Actual Finish Date
 - 11G Baseline Finish Date
 - 11J Baseline Start Date
 - 11V Forecast Finish Date
 - 11W Forecast Start Date
 - 11AM Task/Milestone UIDs
 - 36 Program Detail Schedules
 - 36A Baseline Finish Date
 - 36B Baseline Start Date
 - 36F Actual Finish Date
 - 37 Subcontractor/Supplier Schedules
 - 37A Baseline Finish Date
 - 37B Baseline Start Date
 - 37F Actual Finish Date
 - 45 IMS Data Dictionary
 - 58 Other Lower Level/Supplemental Schedules (e.g., MRP/ERP system)
 - 58A Baseline Finish Date
 - 58B Baseline Start Date
 - 58C Forecast Finish Date

58D Forecast Start Date

9. ASSUMPTIONS:

1. Test metric is based on a Zero-Based Sampling Plan, per MIL-STD-1916 and ANSI/ASQ Z1.4, with an Acceptable Quality Limit (AQL) of 4.0%. When a different sampling plan is used, methodology must be explained. When appropriate, it is acceptable to test the entire population instead of sampling.
 2. Incomplete tasks/activities & milestones equals no actual finish date in the IMS.
 3. Multiple date deficiencies on the same task/activity & milestone are only counted once in the metric numerator.
 4. If the MRP/ERP system does not contain Baseline Dates, then the process for establishing Baseline Dates based on planned need dates should be demonstrated. This may require identifying Work Packages in the future that are outside of the initial sample population.
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10. INSTRUCTIONS:

1. Review the contractor's System Description and determine how lower-level schedules are integrated.
2. Identify incomplete tasks/activities & milestones in lower-level schedules (supplemental schedules, MRP/ERP system data, or subcontractor/supplier schedules) that trace to or support the IMS.
3. From the population in step 2, determine a sample using Assumption 1 and identify their baseline and forecast start and finish dates (Ref. Assumption 4 for MRP/ERP Systems). The sample size is the denominator (Y) of the test metric.
4. From the sample in step 3, trace the lower-level tasks/activities & milestones to their corresponding tasks/activities & milestones in the IMS:
 - a. Set 1: Count each IMS baseline start and baseline finish date that are not traceable to the corresponding lower level baseline start and baseline finish dates (Ref. Assumption 4 for MRP/ERP Systems).
 - b. Set 2: Count each IMS forecast start and forecast finish date that are not traceable to the corresponding lower-level forecast start and forecast finish dates.
5. Add Set 1 and Set 2, not counting any duplicative UIDs between the sets (so a task/activity or milestone is only counted once). This is the numerator (X) of the test metric.
6. Calculate the test metric (Block 7): X divided by Y.
7. Use block 7 as an indicator in the overall Risk Assessment to determine if further evaluation is warranted.

11. CONFIGURATION SUMMARY:

<i>Rev Number</i>	<i>Detailed Description of Change</i>	<i>Sections Affected</i>	<i>Spec Sheet Date</i>
v1.0	Initial CCB		12/02/2015
v2.0	CCB – validated		8/16/2016
v2.1	Integration – updated data elements		9/13/2016
v3.0	CCB – revised		3/23/2017
v3.1	Removed Block 4 (Frequency)		12/19/2018
v3.3	Added Data Element		5/24/2019
v3.4	Update: Attribute, Assumptions, and Instructions		8/31/2019
v3.5	Update: Data Elements Required and Assumptions		2/22/2020
v3.6	No changes – updated to v3.6		8/30/2020
v4.0	Changed Metric Template to delete old blocks 4, 9, 13, & 14 & updated block numbering & wording. Admin update to add “milestone” - blk 10, “schedule” - blk 6, & “/supplier”- blk 10 for DECM consistency. Removed Pass/Fail verbiage to allow assessment of test result case by case. Added data element 45 to supplement artifact 11, Data Element 03 to align with new instruction 1, & updated Des in blk 10. Change "discrepancy" to "deficiency" - to be consistent with the overarching 2303-01. Replaced “equal” with “traceable” & removed “encompass” as metric intent is traceability. Updated wording in blk 5 & 6-X; removed asm 1-blk 9 & step 7-blk 10 to ensure metric intent (vertical traceability) is assessed.	5, 6, 8, 9, 10	03/05/2021
v5.0	Added assumption 4 in blk 9 and reference to assumption in blk 10. Added data elements 58A/B/C/D in blk 8.	8, 9, 10	12/13/2021
v6.0	Update layout for Section 508 Accessibility Compliance		12/02/2022
v7.0	Update layout for Section 508 Accessibility Compliance		12/06/2024
v8.0	No changes - updated to v8.0		8/21/2025