

EVMS Test Metric Specification

1. **GUIDELINE NO:**
06

2. **TEST METRIC ID:**
06A212a

3. **TEST TYPE:**
Automated

4. **ATTRIBUTE/INTENT DEFINITION:**
06A2: The network schedule/IMS depicts the sequence of work (horizontal integration) and identifies the significant interdependencies that are indicative of the actual way the work is planned and accomplished.

5. **TEST DEFINITION:**
Are there out of sequence tasks/activities & milestones?

6. **TEST METRIC:**
X = Count of out of sequence conditions

7. **METRIC THRESHOLD:**
X = 0

8. **DATA ELEMENTS REQUIRED:**
11 Integrated Master Schedule
 11A Actual Finish Date
 11C Actual Start Date
 11V Forecast Finish Date
 11W Forecast Start Date
 11AE Predecessor (Type)
 11AK Successor (Type)
 11AM Task/Activity/Milestone UUIDs
45 IMS Data Dictionary

9. **ASSUMPTIONS:**
 1. Many leads will cause an out of sequence condition.
 2. S.AS: Successor Actual Start
 3. S.AF: Successor Actual Finish
 4. S.FS: Successor Forecast Start
 5. S.FF: Successor Forecast Finish
 6. P.AS: Predecessor Actual Start
 7. P.FS: Predecessor Forecast Start
 8. P.FF: Predecessor Forecast Finish
 9. Incomplete tasks/activities & milestones equals no actual finish date in the IMS.

10. **INSTRUCTIONS:**
 1. Identify all the finish-to-start relationships in the IMS containing an incomplete predecessor task/activity or milestone:

- a. count the number of successor tasks/activities & milestones that have an actual start date OR a forecast start date before the predecessor forecast finish date
[(S.AS or S.FS) < P.FF]
2. Identify all the start-to-start relationships in the IMS containing an incomplete predecessor task/activity or milestone:
 - a. count the number of successor tasks/activities & milestones that have an actual start date OR a forecast start date before the predecessor forecasted start date
[(S.AS or S.FS) < P.FS]
3. For all the finish-to-finish relationships in the IMS containing an incomplete predecessor task/activity or milestone:
 - a. count the number of successor tasks/activities & milestones that have an actual finish date OR a forecast finish date before the predecessor forecast finish date
[(S.AF or S.FF) < P.FF]
4. For all the start-to-finish relationships in the IMS containing an incomplete predecessor task/activity or milestone:
 - a. count the number of successor tasks/activities & milestones that have an actual finish date OR a forecast finish date before the predecessor forecast start date
[(S.AF or S.FF) < P.FS]
5. Add the subtotals from Steps 2 through 5; this is the X of the test metric.
6. Use block 7 as an indicator in the overall Risk Assessment to determine if further evaluation is warranted.
7. For leads causing out of sequence conditions, determine if there is adequate justification/rationale for the use of leads.
8. For out of sequence conditions not caused by leads, determine if there is adequate justification/rationale for the out of sequence condition.

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
RED	Major change accepted by CCB		2/28/2017
v3.0	Major changes – updated to 3.0		3/23/2017
v3.1	Improved instruction syntax, Removed Block 4 (Frequency)		11/27/2018
v3.3	No changes – updated to v3.3		5/24/2019
v3.4	Update: Test Metric, Assumptions, and Instructions		8/31/2019
v3.5	Update: Test Metric and Instructions		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. Removed Pass/Fail verbiage to allow assessment of test results case by case. Added data element 45 to supplement artifact 11. Add “activities” in blk 10 for DECM consistency. Add asm 9 blk 9 to define IMS incomplete.	8, 9, 10	3/05/2021
v5.0	No changes – updated to v5.0		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