

SSI Tools Test Method for DECM 06A301a

Note the SSI inspection method is different than the specification for this metric since it does not inspect lower level /supplemental schedules such as a subcontractor's schedule or data in an MRP/ERP system.

SSI Tools inspects the Baseline Start and Finish of a task's parent (or its summary) and determines if the child task's baseline period of performance is within the parent task's baseline period of performance.

The following conditions are findings for this inspection:

- Parent task has no baseline but child task has a baseline or vice versa
- Baseline Start of the Child task is before the Baseline start of the Parent task
- Baseline Finish of the Child task is after the Baseline finish of the Parent task

Setup Instructions using SSI *DECM Audits* form

No setup is required for this test other than the normal scheduling practice of setting the baseline and, if baseline changes are implemented, making sure task level baseline changes are rolled up to their summary levels.

5. Attribute: 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.).

6. Test Step: Are lower level baseline and forecast dates traceable to, and not outside, the corresponding higher level dates in the IMS?

7. Test Metric:

X = Count of sampled incomplete lower level tasks/activities & milestones where the baseline or forecast dates are outside the corresponding IMS baseline and forecast start or finish dates

Y = Total count of sampled incomplete lower level tasks/activities & milestones

8. Metric Threshold: $X/Y = 0\%$

9. UN/CEFACT Required DEI(s)

10. Data Elements Required:

- 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

Baseline and Forecast Start and Finish Date fields for the following lower level schedules as applicable:

- 36 Program Detail Schedules
 - 36E Actual Start Date
 - 36F Actual Finish Date
- 37 Subcontractor Schedules
 - 37E Actual Start Date
 - 37F Actual Finish Date

58 Other Lower Level/Supplemental Schedules (e.g., MRP/ERP system)

11. Assumptions:

1. All lower level or supplemental schedules are identifiable and traceable to the IMS.
2. 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.
3. Incomplete tasks/activities & milestones equals no actual finish date in the IMS.
4. Multiple date discrepancies on the same activity are only counted once in the metric numerator.

SSI Report

SSI Report shows the following headers referring to the DCMA EVMS Test Metric Specification

- Metric ID – Block 2 **Unique Test Metric ID**
- Name – Block 6 **Test Step**
- Metric Threshold – Block 8 **Metric Threshold**
- Numerator (X) – Block 8 **Metric Threshold X Value**
- Denominator (Y) – Block 8 **Metric Threshold Y Value**
- Score – Block 8 **Metric Threshold X/Y Value**
- Pass/Fail – Block 8 **Metric Threshold X/Y Pass/Fail determination**
- Metric Spec Link – Link to the **EVMS Test Metric Specification**
- SSI Test Link – Link to SSI Test method and description (this document)

SSI Report shows the following Details:

- **Unique ID** – Task Unique ID in Microsoft Project
- **Name** – Task Name in Microsoft Project
- **Out of Sync Child Task Dates** – shows the condition found. The number of conditions is the Numerator in the metric.
- **Start / Finish** – the inspected task's start and finish
- **Baseline Start / Baseline Finish** - the inspected task's Baseline start and finish

Report Example

A	B	C	D	E	F	G	H	I
Metric ID	Name	Metric Threshold	Numerator (X)	Denominator (Y)	Score	Pass/Fail	Metric Spec Link	SSI Test Link
06A301a	Are lower level baseline and forecast dates traceable to, and not outside, the corresponding higher level dates in the IMS?		0%	6	41	15% Fail	DECM Spec	SSI Spec
Unique ID	Name	OutOfSyncChildTaskDates	Start	Finish	BaselineStart	BaselineFinish		
110	Design LOE	No Task Baseline	02/06/2019	05/17/2019				
111	Development and Implementation LOE	No Task Baseline	03/26/2019	11/01/2019				
112	SVT: Project Closeout	No Task Baseline	11/28/2019	12/11/2019				
60	Generate Presentation Materials for	Task Bl. Start < Summary	04/24/2019	04/30/2019	04/01/2019	05/02/2019		
79	Develop Operators, Maintenance & User	No Task Baseline	06/25/2019	07/08/2019				
80	Perform Software Code & Unit Testing	No Task Baseline	06/25/2019	07/29/2019				