

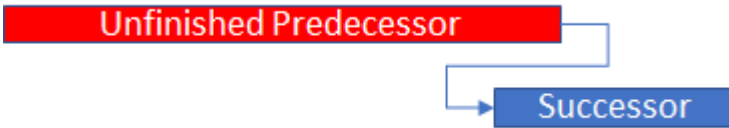
SSI Tools Test Method for DECM 06A212a

Are there out of sequence tasks/activities & milestones?

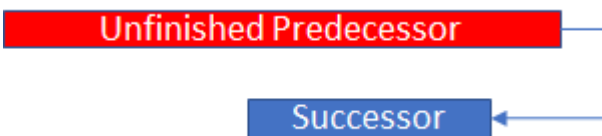
SSI Tools inspects predecessors of tasks and milestones and finds the following conditions according to the Dependency type:

If the predecessor task did not finish (P.AF = NA) then:

- If finish-to-start, the test identifies successor tasks/milestones that have an actual start date OR a forecast start date (S.AS or S.FS) before the predecessors forecast finish date (P.FF). Therefore: $[(S.AS \text{ or } S.FS) < P.FF]$



- If finish-to-finish, the test identifies successor tasks/milestones that have an actual finish date OR a forecast finish date (S.AF or S.FF) before the predecessor forecast finish date (P.FF). Therefore: $[(S.AF \text{ or } S.FF) < P.FF]$

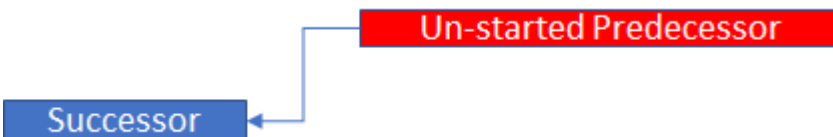


If the predecessor task did not start (P.AS = NA) then:

- If the dependency is start-to-start, the test identifies successor tasks/milestones that have an actual start date OR a forecast start date (S.AS or S.FS) before the predecessor forecasted start date (P.FS). Therefore: $[(S.AS \text{ or } S.FS) < P.FS]$



- If Start-to-finish, the test identifies successor tasks/milestones that have an actual finish date OR a forecast finish date (S.AF or S.FF) before the predecessor forecast start date (P.FS) Therefore: $[(S.AF \text{ or } S.FF) < P.FS]$



If an out of sequence condition is caused by leads (negative lag) SSI reports these tasks as a finding. Projects must have adequate justification/rationale for this condition.

Setup Instructions using SSI DECM Audits form

No setup is required for this test other than the normal scheduling practice of allowing each task's schedule to be determined by its duration and its predecessors.

References from: EVMS Test Metric Specification

5. Attribute: 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.

6. Test Step: Are there out of sequence tasks/activities & milestones?

7. Test Metric: X = Count of out of sequence conditions

8. Metric Threshold: X = 0

10. 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/Milestone UIDs

11. 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

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 Sequence** – shows Yes if the task is the successor having an out of sequence condition

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
06A212a	Are there out of sequence tasks/activities & milestones?	1%	1	87	1%	Fail	DECM Spec	SSI Spec
Unique ID 115	Name Build Test Articles	OutOfSequence Yes						