

SSI Tools Test Method for DECM 12I101a

These conditions may indicate an LOE Work Package with a Schedule Variance (SV) where BCWP <> BCWS. SSI DECM Tools is not able to determine definitively if there is a Schedule Variance in the EVMS since it does not have access to cost calculations. In the EVMS, a Schedule Variance is determined by a difference between Budget Cost of Work Scheduled vs. Budgeted Cost of Work Performed. Therefore, it is likely this test will return false variances due to its lack of cost data. See the DCMA reference below.

Condition 1 - SSI Tools inspects each task identified as LOE to determine if its Current start and finish are not equal to its Baseline start and finish.

Condition 2 - SSI Tools inspects each task identified as LOE to determine if its current percent complete = 0 yet its Baseline Start date is less than the project's status date.

Condition 3 - SSI Tools inspects each task identified as LOE to determine if its current percent complete is > 0 yet its Baseline Start date is after the project's status date.

Condition 4 - SSI Tools inspects each task identified as LOE to determine if its current percent complete is = 100 yet its Baseline Finish date is after the project's status date.

Condition 5 - SSI Tools inspects each task identified as LOE to determine if its current percent complete is <100 yet its Baseline Finish date is before or equal to the project's status date.

Reference the DCMA Spec 12I1: The nature of LOE is such that the Budgeted Cost for Work Performed (BCWP) reflects only the passage of time during which LOE tasks/activities are planned; there is never a Schedule Variance (SV), i.e., BCWP always equals Budgeted Cost for Work Scheduled (BCWS).

Setup Instructions using SSI DECM Audits form

LOE tasks need to be explicitly identified in a project. You can do this either by their **Earned Value Technique (EVT) Code**, or by another **Level of Effort (LOE) ID Method** such as the capital letters "LOE" in the task name.

DECMA Audits

Introduction

Project Fields for EV

DECMA Audit Batch

Earned Value Code Map

EV Performance Tools

Saved Settings

Fields used for Earned Value Metrics

Control Account(CA) code or id:

None

Control Account Manager (CAM):

None

Control Account Org Breakdown Structure (OBS):

None

Control Account Work Breakdown Structure (WBS):

None

Work Package (WP) code or Id:

None

Earned Value Technique (EVT) Codes:

Text4 (PMT/EVT)

Element of Cost (EOC) Identification:

Resource Type

Calendar Location:

C:\Users\Public\SSI_Tools\TSV\

Fiscal / Accounting Calendar:

None

How are Special Tasks Identified?

Level of Effort (LOE) ID Method:

LOE in Name

Planning Package Id Method:

None

Schedule Visibility Task (SVT) Id Method:

LOE in Name

Schedule Margin Task Id Method:

Level of Effort in Name

Support in Name

Per Earned Value Technique (EVT)

Flag = Yes

Do LOE WPs have schedule variances?

12: The nature of LOE is such that the Budgeted Cost for Work Performed (BCWP) reflects only the passage of time during which LOE tasks/activities are planned; there is never a Schedule Variance (SV), i.e., BCWP always equals Budgeted Cost for Work Scheduled (BCWS).

- $X = 0$
- $X = \text{Count of incomplete LOE WPs where } (BCWPCUM - BCWSCUM) \text{ does not equal } 0$
- $Y = \text{Total count of incomplete LOE WPs}$

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:

- WP
- Unique ID – Microsoft Project Task Unique ID
- Name – Microsoft Project Task Name
- BaselineStart
- BaselineFinish
- Start
- Finish

Report Examples:

Condition 1 - Current start and finish are not equal to its Baseline start and finish.

Metric ID	Name	Metric Threshold	Numerator (X)	Denominator (Y)	Score	Pass/Fail
12I101a	Do LOE WPs have schedule variances?	0%	1	1	100%	Fail
WP	Unique ID	Name	InvalidPerformance	BaselineStart	BaselineFinish	EvPctCm
LOE1.1	108	My LOE	LOE may have SV - Check Start/Finish vs. Baseline	12/28/2021	04/12/2022	40

Condition 2 - SSI Tools inspects each task identified as LOE to determine if its current percent complete = 0 yet its Baseline Start date is less than the project's status date.

Metric ID	Name	Metric Threshold	Numerator (X)	Denominator (Y)	Score	Pass/Fail
12I101a	Do LOE WPs have schedule variances?	0%	1	1	100%	Fail
WP	Unique ID	Name	InvalidPerformance	BaselineStart	BaselineFinish	EvPctCm
LOE1.1	108	My LOE	LOE with SV - BCWP & Should be >0	01/31/2022	04/12/2022	0

Condition 3 - SSI Tools inspects each task identified as LOE to determine if its current percent complete is > 0 yet its Baseline Start date is after the project's status date.

Metric ID	Name	Metric Threshold	Numerator (X)	Denominator (Y)	Score	Pass/Fail
12I101a	Do LOE WPs have schedule variances?	0%	1	1	100%	Fail
WP	Unique ID	Name	InvalidPerformance	BaselineStart	BaselineFinish	EvPctCm
LOE1.1	108	My LOE	LOE with SV - BCWP & Should be 0	03/04/2022	04/12/2022	25

Condition 4 - SSI Tools inspects each task identified as LOE to determine if its current percent complete is = 100 yet its Baseline Finish date is after the project's status date.

Metric ID	Name	Metric Threshold	Numerator (X)	Denominator (Y)	Score	Pass/Fail
12I101a	Do LOE WPs have schedule variances?	0%	1	1	100%	Fail
WP	Unique ID	Name	InvalidPerformance	BaselineStart	BaselineFinish	EvPctCm
LOE1.1	108	My LOE	LOE with SV - BCWP & Should be <100	01/31/2022	04/12/2022	100

Condition 5 - SSI Tools inspects each task identified as LOE to determine if its current percent complete is <100 yet its Baseline Finish date is before or equal to the project's status date.

Metric ID	Name	Metric Threshold	Numerator (X)	Denominator (Y)	Score	Pass/Fail
12I101a	Do LOE WPs have schedule variances?	0%	1	1	100%	Fail
WP	Unique ID	Name	InvalidPerformance	BaselineStart	BaselineFinish	EvPctCm
LOE1.1	108	My LOE	LOE with SV - BCWP & Should be 100	01/31/2022	02/28/2022	75