

SSI Tools Test Method for DECM 12A201a

Are LOE WPs separately evaluated from discrete WPs within the same control account?

SSI Identifies Work Packages (WP) with LOE and Non-LOE tasks. If more than one task in a schedule has the same WP code (a many-to-one work package) they should all use the same Earned Value Techniques (EVT). This tests for many-to-one work packages where one task is LOE and others, with the same WP code, have any other EVT.

Findings for this test include:

Tasks with the same WP Id using LOE and one or more other Earned Value Techniques (EVT). The example below results in a finding because at least one task with the WP code WP1.1 is LOE and all other tasks are not LOE.

Task Name	EVT	WP ID
System Concept Development Tasks		
Document the Concept of Operation (CONOPS)	0/100	WP1.1
Generate Analysis of Alternatives (AoA) Study Plan	0/100	WP1.1
Perform AoA Study Plan Review	0/100	WP1.1
Develop Life Cycle Cost Estimate (LCCE)	LOE	WP1.1

Setup Instructions using SSI *DECM Audits* form

1. Enter the identification method for Earned Value Technique (EVT) Codes
2. Enter the value used to identify EVTs
3. Select the method of identifying Level of Effort (LOE) items in the schedule

Project Fields for EV

DECM Audits

IntroductionProject Fields for EVDECM Audit BatchEarned Value Code MapEV Performance ToolsSaved Settings

Fields used for Earned Value Metrics

Control Account(CA) code or id:

Text3 (WP Parent)

Control Account Manager (CAM):

Contact

Control Account Org Breakdown Structure (OBS):

Text2 (OBS)

Control Account Work Breakdown Structure (WBS):

WBS

Work Package (WP) code or Id:

Text1 (WP ID)

Earned Value Technique (EVT) Codes:

Text4 (EVM)

Element of Cost (EOC) Identification:

Resource Group

Name and Location of Accounting Calendar:

Calendar Location:

C:\Users\Public\SSI_Tools\TSV

Fiscal / Accounting Calendar:

TSV_2019_2024-Fiscal_Cal.csv

How are Special Tasks Identified?

Per Earned Value Technique (EVT)

Level of Effort (LOE) ID Method:

Earned Value Code Map

What value is used to identify a Level of Effort Earned Value Technique?

LOE

In this example the user is identifying LOE tasks according to the EVT which is in Text4 per the setup value for Earned Value Technique (EVT) Codes. The EVT code used for a LOE task is “LOE” according to the settings on the tab named Earned Value Code Map

References from EVMS Test Metric Specification

5. Attribute:

- 12A2: Work packages planned as LOE are separately evaluated from discrete within the control account.

6. Test Step: Are LOE WPs separately evaluated from discrete WPs within the same control account?

7. Test Metric:

X = Count of sampled incomplete CAs requiring VARs that have LOE and discrete WPs where cost performance of LOE work and cost/schedule performance of discrete work is not separately evaluated

Y = Total count of sampled incomplete CAs requiring VARs that have LOE and discrete WPs

8. Metric Threshold: $X/Y \leq 10\%$

10. Data Elements Required:

13 EV Cost Tool Data

13Q BCWP_{CUM}

13BA WP/PP/SLPP UIDs

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 – Shows NA because this condition is only met by multiple tasks with the same WP ID or code
- WP – The Work Package ID or code
- Task Types – shows the number 2 if the WP contains both LOE and Non-LOE tasks. This value will always show 2 since LOE and Non-LOE are the only task types evaluated for this metric

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
12A201a	Are LOE WPs separately evaluated from discrete WPs within the same control account?	10%	1	1	100%	Fail	DECM Spec	SSI Spec
Unique ID	WP	TaskTypes						
NA	WP1.1	2						