

SSI Tools Test Method for DECM 10A102a

Are EVTs assigned to WPs?

SSI Tools identifies incomplete Work Packages without an assigned Earned Value Technique (EVT)

Findings for this test include:

- Any incomplete WPs without an EVT in the project field identified by the user.

Setup Instructions using SSI *DECM Audits* form

- Enter the identification method for Work Package tasks using the drop-down list named **Work Package (WP) code or id**
- Enter the identification method for Earned Value Technique using the drop-down list named **Earned Value Technique (EVT) Codes**

The screenshot shows the 'DECM Audits' application window with the 'Project Fields for EV' tab selected. The form contains several sections for configuring earned value metrics:

- Fields used for Earned Value Metrics:** A group of seven dropdown menus. The first six are labeled: 'Control Account(CA) code or id:', 'Control Account Manager (CAM):', 'Control Account Org Breakdown Structure (OBS):', 'Control Account Work Breakdown Structure (WBS):', 'Work Package (WP) code or Id:', and 'Earned Value Technique (EVT) Codes:'. The seventh is labeled 'Element of Cost (EOC) Identification:'. The values selected are: 'Text3 (WP Parent)', 'Contact', 'Text2 (OBS)', 'WBS', 'Text1 (WP ID)', 'Text4 (EVM)', and 'Resource Group'. A mouse cursor is pointing at the 'Text1 (WP ID)' dropdown, and another is pointing at the 'Text4 (EVM)' dropdown. To the right of the 'Earned Value Technique (EVT) Codes:' dropdown is a button with three dots '...'. The 'Text4 (EVM)' dropdown is highlighted with a red box.
- Name and Location of Accounting Calendar:** Two text boxes. The first is 'Calendar Location:' with the value 'C:\Users\Public\SSI_Tools\TSV'. The second is 'Fiscal / Accounting Calendar:' with the value 'TSV_2019_2024-Fiscal_Cal.csv'.
- How are Special Tasks Identified?:** A group of four dropdown menus. The first two are labeled 'Level of Effort (LOE) ID Method:' and 'Planning Package Id Method:', both with the value 'Per Earned Value Technique (EVT)'. The next two are labeled 'Schedule Visibility Task (SVT) Id Method:' and 'Schedule Margin Task Id Method:', with values 'SVT in Name' and 'SCHEDULE MARGIN in Name' respectively.
- Load Saved Settings for this project:** A dropdown menu with the value 'DefaultSettings'.

At the bottom left, there is a 'Progress:' label. At the bottom right, there is a 'Get Help' button.

References from EVMS Test Metric Specification

5. Attribute:

10A1: Work packages have the following characteristics:

- Represent the scope of work at the level where work is performed or aggregated.
- Are distinguishable from all other work packages.
- Are assigned to a single organizational element.

- Include scheduled start and completion dates; and as applicable, interim milestones, all of which are representative of technical accomplishment.
- Have a time-phased budget or value expressed in terms of dollars, labor hours, or other measurable units that is substantiated in terms of supporting project plans.
- Have durations that are limited to a span of time that is practical for the work scope. Longer-duration work packages have interim objective measures, such as points of technical achievement, to enable accurate performance assessment.
- Are identified within the Integrated Master Schedule (IMS) and other supporting schedules.

6. Test Step: Are EVT's assigned to WPs?

7. Test Metric:

X = Count of incomplete WPs without an assigned EVT

Y = Total count of incomplete WPs

8. Metric Threshold: $X/Y \leq 5\%$

10. Data Elements Required:

13 EV Cost Tool Data

13AP EVT

13BA WP/PP/SLPP UUIDs

11. Assumptions:

1. If BAC and BCWPCUM are within \$100 (or 1 hour), then WP is complete.
2. PPs and SLPPs are not included.

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
- **EVT** – shows that EVT is blank for each finding

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	
10A102a	Are EVTs assigned to WPs?	5%	3	41	7%	Fail	DECM Spec	SSI Spec	
Unique ID	Name	EVT							
7	Critical Design Review (CDR)								
9	Test Readiness Review (TRR)								
10	Production Readiness Review (PRR)								