

SSI Tools Test Method for DECM 10A105a

Is BCWP claimed consistent with the WP EVT?

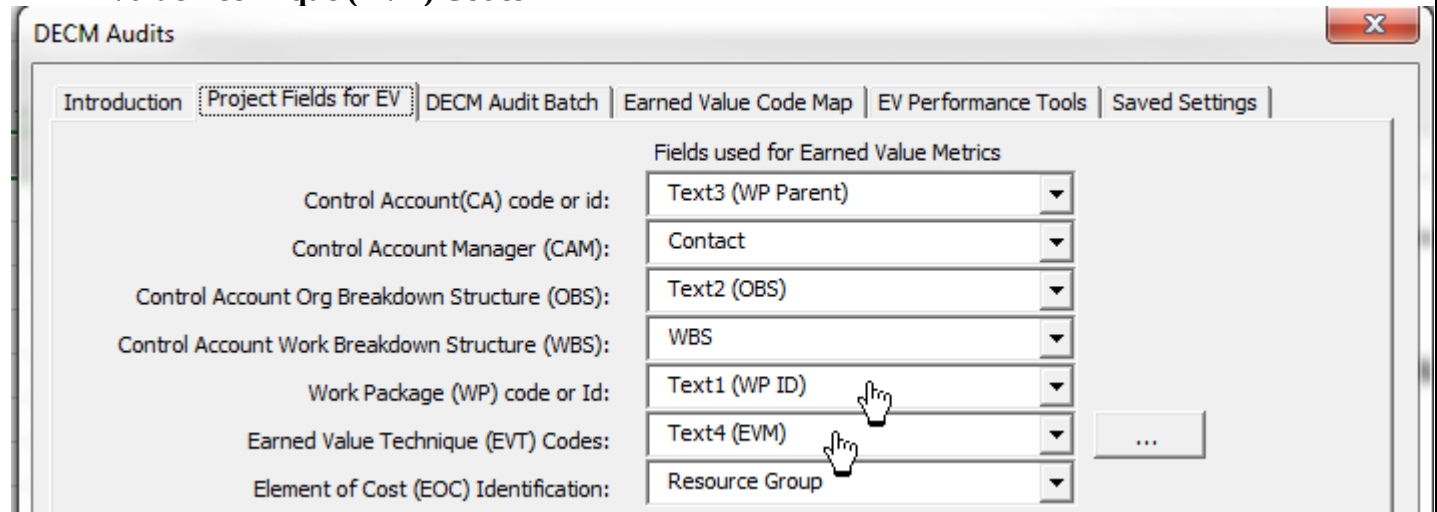
SSI identifies incomplete 0/100, non-LOE Work Packages (WPs) with Physical % Complete >0, non-LOE WPs with no Actual Start date with Physical % Complete >0. Additionally, if the % Start value for X/Y EV types can be determined, SSI Tools will evaluate the consistent of those as well. Since an evaluation of Physical % Complete vs. Quantifiable Backup Date (QBD) may require the evaluation of documents outside the Microsoft Project Schedule, SSI Tools does not evaluate QBD vs. Physical % Complete.

Findings for this test include:

- Incomplete 0/100, non-LOE Work Packages (WPs) with Physical % Complete >0
- Non-LOE WP with no Actual Start date and a Physical % Complete >0
- In-progress WP using an X/Y EVT where Physical % Complete is different than the “X” or Start value.
- Note – QBD vs. Physical % Complete is not evaluated.

Setup Instructions using SSI *DECM Audits* form

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



3. Enter the code or value used to identify a X/Y EVT in the **Earned Value Technique (EVT) Codes** field in Microsoft Project (from #2 above)

DECM Audits

Introduction | Project Fields for EV | DECM Audit Batch | **Earned Value Code Map** | EV Performance Tools | Saved Settings

DECM assesses your schedule for correct use of Earned Value Technique (EVT). Use this form to list the codes you use in: TextX

Separate each value with a comma if using more than one code in this project's EVT field. If these fields are showing Examples, replace the examples with the codes used in your project.

What value or values in are used to identify a 0/100 Earned Value Technique?

Replace these Examples with your codes: F, 0/100

What value or values are used to identify a X/Y Earned Value Technique?

Replace these Examples with your codes: E, H, 25/75, 50/50

References from EVMS Test Metric Specification

5. Attribute: Intent: Each work package is established using the best method to budget and then measure its progress toward completion. The EVT is established based on how the work is planned (Budgeted Cost for Work Scheduled (BCWS)), and performance (Budgeted Cost for Work Performed (BCWP)) is earned consistent with the EVT. Based on the nature of the work contained in work packages, an appropriate EVT is identified for use in measuring work accomplishment.

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: Is BCWP claimed consistent with the WP EVT?

7. Test Metric:

X = Count of in-progress Non-LOE WPs sampled with a recorded percent complete that is not consistent with budget and EVT.

Y = Total count of in-progress Non-LOE WPs sampled

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

10. Data Elements Required:

13 EV Cost Tool Data

13AN EV % Complete

13AP EVT

13H BAC

13Q BCWP_{CUM}

13S BCWP_{CUR}

13X BCWS_{CUR}

32 Quantifiable Backup Data

32A EV % Complete

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
- **PctCmp** – Shows the task's Percent Complete in Microsoft Project
- **EvPctCmp** – Shows the task's Physical Percent Complete in Microsoft Project
- **EVT** – The Earned Value Technique (EVT) for the work package
- **InvalidPerformance** – Describes the condition found by the evaluation. Any condition listed is counted in the numerator of the pass/fail determination.

Report Example

10A105a	Is BCWP claimed consistent with the WP EVT?	5%	3	71	4% Pass	DECM Spec	SSI Spec
Unique ID	Name	PctCmp	EvPctCmp	EVT	InvalidPerformance		
60	Generate Presentation Materials for Prelimin:	50	100	0/100	BCWP claimed not consistent with the WP EVT		
67	Perform Design Validation and Verification	20	50	0/100	BCWP claimed not consistent with the WP EVT		
73	Conduct Critical Design Review (CDR)	0	50	0/100	BCWP claimed not consistent with the WP EVT		