

SSI Tools Test Method for DECM 11A101a

For all CAs, does the BAC for the CA equal the sum of the WP and PP budgets within the CA?

SSI Summarizes the baseline work and cost (BAC) for all items in the schedule with a Control Account (CA). This is the Denominator in the report. Then it sums the BAC for all Work Packages (WP) and Planning Packages with the same CA as the Numerator. If these numbers are different, the schedule has items with a CA but no WP or vice versa.

NOTE – The DECM source for this test is EV Cost data from the EV tool and other contract documents showing the authorized budgets. Using project data only, SSI can only determine if every budgeted item with a control account has work package or planning package Ids or codes

Findings for this test include:

Items with a CA but no WP or PP id or code. If you have any findings with this metric, it simply means that you have tasks with a Control Account id or code but no Work Package Id or code. Filter your project for tasks with a CA and no WP to identify specific items

Setup Instructions using SSI *DECM Audits* form

1. Enter the identification method for Control Account (CA) code or id
2. Enter the identification method for Work Package (WP) code or id

Project Fields for EV

DECM Audits

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

References from EVMS Test Metric Specification

5. Attribute: 11A1: The sum of all work package budgets plus planning package budgets within control accounts equals the budgets authorized for those control accounts.

6. Test Step: For all CAs, does the BAC for the CA equal the sum of the WP and PP budgets within the CA?

7. Test Metric:

X = Sum of the absolute values of (CA BAC – the sum of its WP and PP budgets)

Y = Total program BAC

8. Metric Threshold: $X/Y \leq 1\%$

10. Data Elements Required:

13 EV Cost Tool Data

13J BAC (for CAs)

13M BAC (for WPs and PPs)

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 metric does not test individual task. Instead, it gets the sum of work and cost for Control Accounts, then gets the sum of work and cost for Work Packages to see if they are the same
- WP Values – Shows the work and cost for Work Packages and Work Packages
- Sum of Baseline Work
- Sum of Baseline Cost

If you have a findings with this metric (potential fail), it simply means that you have tasks with a Control Account id or code but no Work Package Id or code. Filter your project for tasks with a CA and no WP to identify specific items

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
11A101a	Does the BAC value for all CAs equate to the sum of their WP and PP budgets?	1%	200.00	3,879.73	5%	Potential Fail	DECM Spec	SSI Spec
Unique ID	WP Values	Sum Of Baseline Work	Sum Of Baseline Cost					
NA	Value For All CAs	4,079.73	-					
NA	Value For All WPs	3,879.73	-					