



## Earned Value Setup

Earned Value Management (EVM) is a method of measuring project performance. It compares the amount of work that was planned with what was actually accomplished to determine if cost and schedule performance is as planned.

This document identifies the requirements and steps to configure Clarity to support the Earned Value Management (EVM) process within the UI. This document is organized into two sections:

- The first section specifies the prerequisites for configuring Clarity to support EVM, including the setup of resources, projects, and tasks.
- The second section identifies the step-by-step process to have EVM functioning for a project.

## Clarity EVM Configuration

Before starting to use the Earned Value feature of Clarity, there are some administrative configurations that need to be set. Most of these activities are performed in the Administrative Module of Clarity.

- Rate Matrix for resources (labor) is defined and active for the project.
- All resources are associated with a rate in the rate matrix, so that their planned and actual costs can be generated.
- Timesheet periods are defined and open for time entry.
- All assigned resources can enter time.
- There is at least one setup entry on Earned Value Time Periods page of Clarity Administrative module.
- Projects and resources are stored in the DataMart. DataMart Extraction and Timeslice jobs have run.

**Note:** Full Financial configuration is not required. But both Resources and Projects must be linked to a rate matrix to extend hours to calculate cost. The cost calculations in the EV module do not use the Financial tables.

## Steps in the EVM Process

The Earned Value process requires numerous activities in administrative module as well as application module of Clarity.

Step	Module	Description
1.	Administration	Check for valid time periods under Earned Value (EV) Reporting Period entry. <ul style="list-style-type: none"><li>- On select entry on EV Reporting Period list page, click on the EV Periods icon</li><li>- Check if all possible periods which will be used are defined here.</li><li>- If not defined, create new and enter the number of periods you want to add at the end of already defined</li></ul>

		periods.
2.	Application	On the Project Schedule page, make sure the valid earned value reporting period is defined.
3.	Application	On the Project Schedule page, make sure the EV calculation method is defined as 'Percent Complete'. Other valid values can be selected based on the organization adopted standard for EVM.
4.	Application	Create one baseline of existing status of the project.
5.	Application	Enter some actual hours in the project through resource time entry, and ensure that those timesheets are approved.
6.	Application	Post timesheets by executing following job: - Post Timesheets
7.	Application	Perform following jobs in sequence: - Time Slicing should be running constantly - Update Hierarchy Data - Investment Allocations
8.	Application	Set %Completes on tasks and project As of Date.
9.	Application	Perform following Job to calculate Earned Value Totals - Update Earned Value Totals
10.	Application	In the project, click on Baseline link under Properties Tab - Check current baseline and click update earned value tab - Displayed EV values should get updated.
11.	Application	Check the updated Earned Values on Project Schedule page, or wherever they are listed.
12.	Application	Run the Update Earned Value History or Create Earned Value Snapshots jobs to create new periods into the future. Or they can be created manually on the EV Reporting Period page.

## Configuration Attributes

Earned Value attributes available for configuration in Clarity Studio are shown below.

No.	Required Field	Clarity Attribute	Attribute ID
1.	Baseline Cost	BAC	ev_bac
2.	Actual Cost	ACWP	ev_acwp
3.	Budgeted Cost	BCWP (earned value) BCWS	ev_bcwp ev_bcws
4.	Earned Value (EV)	BCWP	ev_bcwp
5.	Cost Performance Index (CPI)	CPI	ev_cpi
6.	Schedule Performance Index (SPI)	SPI	ev_spi
7.	Cost Variance (CV)	CV	ev_cv
8.	Schedule Variance (SV)	SV	ev_sv
9.	Actual Hours	Actual Sum For Labor Resources	labor_actsum
10.	ETC Hours	ETC Sum For Labor Resources	labor_etcsum
11.	Baseline Hours	Baseline Usage	baseline_usage
12.	Total Effort Hours	Total Labor Effort	labor_effort