

**From:** usatech@primavera.com

**Sent:** Thursday, August 30, 2007 4:24 PM

**To:** Neal C. Wickham

**Subject:** What are the Percent Complete fields and their calculations?

**The following is a Primavera Knowledgebase solution:**

Solution ID: 200021103531

**Goal** What are the Percent Complete fields and their calculations?

**Symptom** Why is schedule percent complete equal to 0 when activity has actual start and actual finish?

**Fix**

Percent Complete Type	The activity percent complete type is one of "Duration", "Units", or "Physical". The percent complete type controls whether the Activity % Complete is tied to the Duration % Complete, the Units % Complete, or the Physical % Complete for the activity. Set the percent complete type to "Duration" for activities which are duration driven, for example, administration tasks and training classes. Set the percent complete type to "Physical" for activities which are work-product driven, for example, creating a document or a product. Set the percent complete type to "Units" for activities which are work effort driven, for example, providing a consulting service.
<b>Activity Percent Complete Fields</b>	
Physical % Complete	The activity physical percent complete. The physical percent complete reflects the actual progress made on the activity's work products so far. Physical percent complete can be manually entered by people familiar with the status of the activity's work products or it can be based on the completion of assigned Steps. Always in the range 0 to 100.
Duration % Complete	The percent complete of the activity duration. Computed as ((Planned Duration - Remain Duration) / Planned Duration) * 100. Always in the range 0 to 100. The planned duration is taken from the current plan, not from the current baseline.
Duration % of Planned	The activity actual duration percent of planned. Computed as (Actual Duration / BL Duration) * 100. The value can exceed 100. The BL Duration is the activity's at complete duration from the current baseline.
Activity % Complete	The activity percent complete. This value is tied to the activity Duration % Complete, Units % Complete, or Physical % Complete, depending on the setting for the activity's Percent Complete Type, which is one of "Duration", "Units", or "Physical". Always in the range 0 to 100.
Schedule % Complete	The Schedule % Complete specifies how much of the activity's baseline duration has been completed so far. Computed based on where the current data date falls between the activity's baseline start and finish dates. If the data date is earlier than the BL Start, the Schedule % Complete is 0. If the data date is later than the BL Finish, the Schedule % Complete is 100. The Schedule % Complete indicates how much of the activity duration should be currently completed, relative to the selected baseline.  <b>Note: Summary Schedule percent complete when displayed on an organize band, will ALWAYS be calculated as (BCWS* 100) / BAC, regardless of what earned value technique is selected for the activity's WBS.</b>
Performance % Complete	Performance percent complete is used to compute earned value and may be based on the Activity % Complete, on the 0/100 rule, on the 50/50 rule, etc., depending on the technique for computing earned-value percent complete for the activity's WBS. The Performance % Complete specifies what percentage of the activity's planned worth has been earned so far.

Note: Summary Performance percent complete when displayed on an organize band, will ALWAYS be calculated as  $(BCWP * 100) / BAC$ , regardless of what earned value technique is selected for the activity's WBS.

#### Cost Related Percent Complete Fields

Labor Cost % Complete	The percent complete of costs for all labor resources assigned to the activity. Computed as $(\text{Actual Labor Cost} / \text{At Complete Labor Cost}) * 100$ . Always in the range 0 to 100.
Non-Labor Cost % Complete	The percent complete of costs for all non-labor resources assigned to the activity. Computed as $(\text{Actual Non-Labor Cost} / \text{At Complete Non-Labor Cost}) * 100$ . Always in the range 0 to 100.
Expense Cost % Complete	The percent complete of costs for all expenses associated with the activity. Computed as $(\text{Actual Expense Cost} / \text{At Complete Expense Cost}) * 100$ . Always in the range 0 to 100.
Cost % Complete	The percent complete of costs for all labor resources, non-labor resources, and expenses for the activity. Computed as $(\text{Actual Total Cost} / \text{At Complete Total Cost}) * 100$ . Always in the range 0 to 100.
Cost % of Planned	The activity actual cost percent of planned. Computed as $(\text{Actual Total Cost} / \text{BL Total Cost}) * 100$ , or equivalently as $(\text{ACWP} / \text{BAC}) * 100$ . The value can exceed 100. The baseline total cost is the activity's at complete cost from the current baseline.

#### Unit Related Percent Complete Fields

Units % Complete	The percent complete of units for all labor and non-labor resources assigned to the activity. Computed as $(\text{Actual Units} / \text{At Complete Units}) * 100$ . Always in the range 0 to 100.
Labor Units % Complete	The percent complete of units for all labor resources for the activity. Computed as $(\text{Actual Labor Units} / \text{At Complete Labor Units}) * 100$ . Always in the range 0 to 100.
Non-Labor Units % Complete	The percent complete of units for all non-labor resources for the activity. Computed as $(\text{Actual Non-Labor Units} / \text{At Complete Non-Labor Units}) * 100$ . Always in the range 0 to 100.

#### WBS Level Percent Complete Field

Steps % Complete	The percent complete using the WBS Milestones that are assigned to a WBS level. Computed as $\text{Actual Weight of Completed Milestones} / \text{Total Possible Weight of All Milestones}$
------------------	---

**Fix** SEE ALSO [Solution ID: 200398161451](#) - "[Why is Schedule Percent Complete equal to 0 on the summary band when values exist on the activities?](#)"

SEE ALSO [Solution ID: 20011017123859](#) - "[How do WBS milestones work?](#)"