

TECH TIP

CREATING CASH FLOW CURVE – P6 SCHEDULE & UNIFIER COST DATA ORACLE PRIMAVERA P6 & UNIFIER

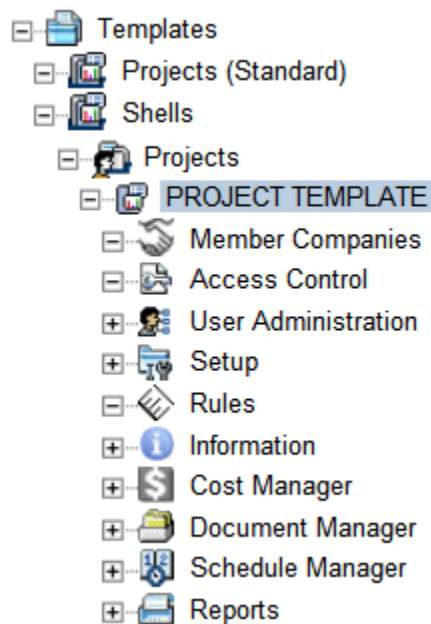
To utilize dates from a P6 schedule to create a cash flow curve in Unifier based on cost business process data. This tech tip details the steps to do this.

The following example uses the Unifier base product Cost Controls application.

Pre-Requisite Set Up

Unifier:

1. Unifier project (shell) has been created using the base product shell template - this will include the default Data Mapping required in the schedule sheet.



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2. Unifier CBS Cost Codes have been created in the cost sheet for the Unifier project.

Project Cost Sheet		
	Cost Code	Cost Item
1	01-000	Site Construction
2	01-01A	Site Design
3	01-01B	Site Excavation
4	02-000	Concrete & Masonry & Metal
5	02-02A	Concrete Work
6	02-02B	Masonry Work
7	02-02C	Metal Work
8	03-000	Wood & Plastic & Thermal
9	03-03A	Wood & Plastic Work
10	03-03T	Thermal Work

3. Cost sheet data has been populated using a base product cost business process. The example uses Budget Approvals and budgets two Cost Codes.

File Edit View Actions Help

☒ Close Window

Budget Approval Budget Approval

General

Record Number: Creator: [Company Administrator](#)

Title: Creation Date:

Project Number: Due Date:

Project Name: Status:

Contract Reference:

Task Details

Record has been closed. ([Click here](#) to view process details)

Line Items

Current View: All Show Currency in: Transaction Currency

2 Item(s) Page 1 of 1 Display 100 items per page

No.	Cost Code	Code Name	Short Description	Spend Category	Amount
001	01-01A	Site Design	01-01A		250,000.00
002	01-01B	Site Excavation	01-01B		250,000.00

☒ Grid

Total Amount: \$ 500,000.00

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Cost sheet view of the cost business process record. Two Cost Codes have budgets against them.

Project Cost Sheet			
	Cost Code	Cost Item	Budget Approval (Approved)
1	01-000	Site Construction	500,000.00
2	01-01A	Site Design	250,000.00
3	01-01B	Site Excavation	250,000.00
4	02-000	Concrete & Masonry & Metal	0.00
8	03-000	Wood & Plastic & Thermal	0.00

P6:

1. P6 Application Settings have been set with the correct Unifier environment settings - this creates the association between P6 and the Unifier environment.

Primavera Unifier

Enter the Primavera Unifier URL and credentials to enable Primavera Unifier link to P6.

Primavera Unifier URL

Company Short Name

Authentication Code

2. Unifier Project Settings for the P6 schedule has been set in Project Preferences - this links the P6 schedule with the Unifier project.

Primavera Unifier

Analytics
Calculations
Contract Management
Defaults
General
Primavera Unifier
Progress Reporter
Services
Team Member Interfaces

☒ Link project to a Primavera Unifier project

Project Name

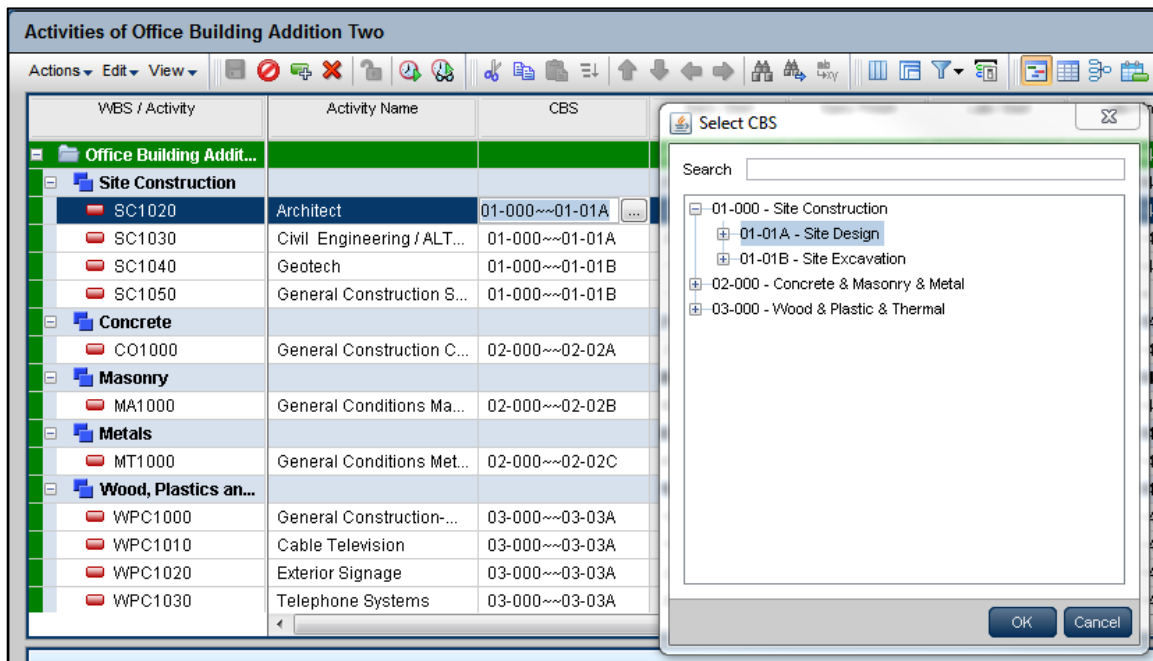
Schedule Sheet

Data Mapping

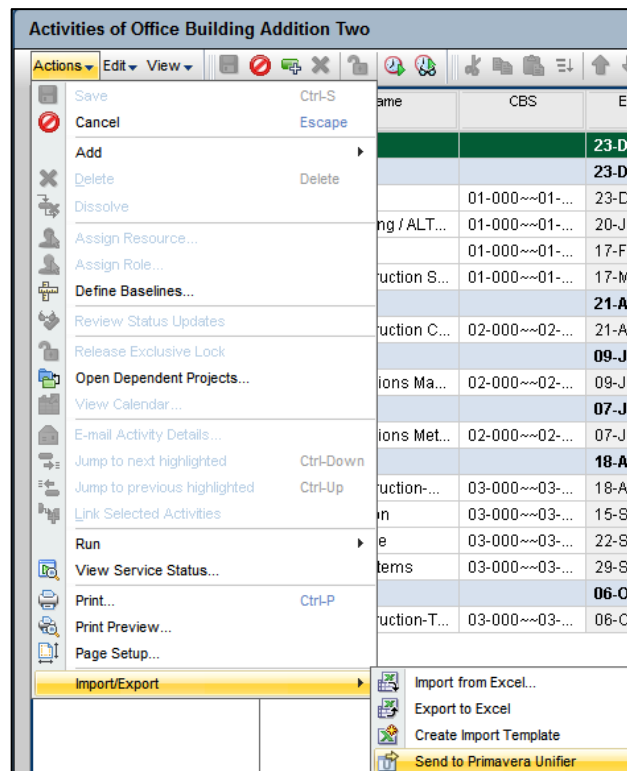
☒ Delete activities no longer in the P6 Schedule from Primavera Unifier
☐ Only send activities with CBS codes assigned

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- CBS Cost Codes (from the Unifier project's cost sheet) are assigned to Activities using the CBS column.

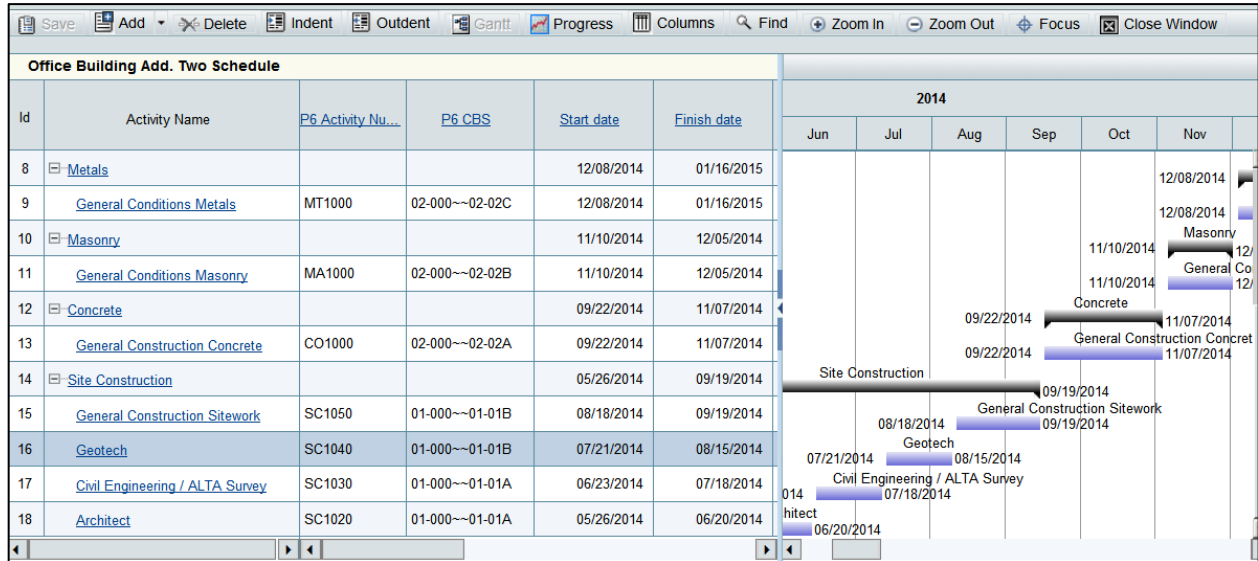


- P6 schedule has been sent to Unifier.



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5. Check the P6 schedule data has been populated in the Unifier project's schedule sheet.



CREATING CASH FLOW CURVE – P6 SCHEDULE & UNIFIER COST DATA

Creating the Cash Flow Curve

1. In the Cost Manager of the Unifier project:
 - a. Select Cash Flow node.
 - b. Click New and select Detail Curves.

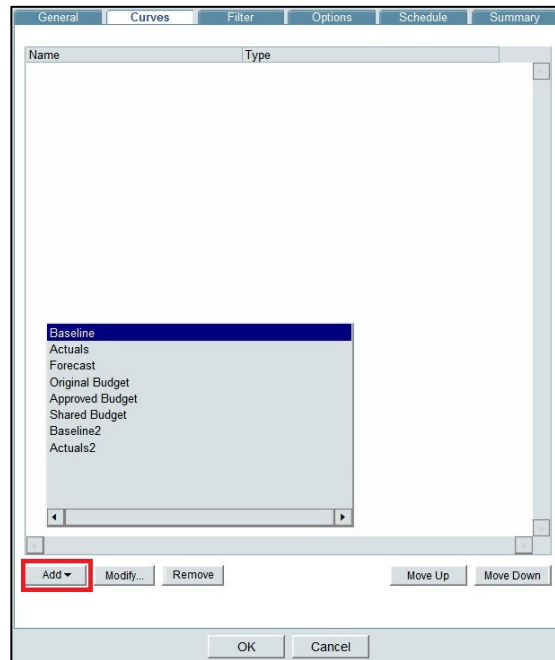
This will create the detail level the curve data will be based on.

2. In the General Tab:
 - a. Provide a name.
 - b. Select WBS (the curve will use the CBS Cost Codes).

The screenshot shows the Unifier software interface. The 'New' button in the top menu bar is highlighted with a red box. The 'Cash Flow' node is selected in the left sidebar. The 'Cash Flow - Current View: All' window is open, showing the 'General' tab. The 'Name' field is set to 'Detail Curves'. The 'Description' field is empty. The 'Rollup Status' is set to 'Active'. The 'Detail Level' is set to 'WBS'. The 'Business Process' is set to '--Select--'. The 'Reference Elements' and 'Base Commit Record' fields are empty, with 'Select...' buttons next to them. The 'Time Scale' is set to 'By: Month' and 'Format: MM YY'. The 'Period Close Settings' section includes checkboxes for 'Enable auto snapshot on' and 'Cutoff spends', both with 'Select...' buttons. The 'Apply Spends to:' section has three radio buttons: 'The same month as the effective date' (selected), 'The next month if after the cutoff date', and 'The previous month if on or before the cutoff date'. The 'OK' and 'Cancel' buttons are at the bottom.

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3. In the Curves tab:
 - a. Click Add and select a curve. The curve selected in this example (baseline) is one of the default curve types (Baseline, Actuals, Forecast) from the Cost Controls application.
 - b. Click Ok to close window.



A distribution profile (curve type) will be assigned to each CBS Cost Code.

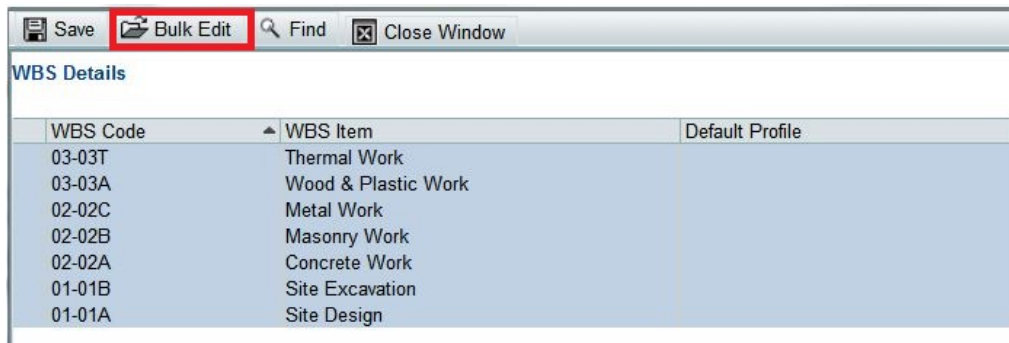
4. In the Distribution section:
 - a. Select 'Auto by default profile per WBS' radio button.
 - b. Click Details.

A screenshot of a dialog box titled 'Cash flow by WBS - Baseline'. It contains several sections: 'Name' and 'Type' both set to 'Baseline'; 'Distribution' with radio buttons for 'Manual', 'Auto by default profile per WBS' (selected), and 'Use data from Schedule Sheet'; 'Cost' with radio buttons for 'Manually enter amounts for each period', 'Auto distribute total amount across all periods' (selected), and 'Distribute amount from cost sheet column'; and 'Schedule' with radio buttons for 'Manual' (selected) and 'Use dates from Schedule Sheet'. There are also fields for 'From Date', 'To Date', and 'Data element from schedule sheet'. A 'Details...' button is highlighted with a red rectangular box. At the bottom are 'OK' and 'Cancel' buttons.

5. Select all the rows to take advantage of the Bulk Edit feature.

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- a. Click the Bulk Edit.

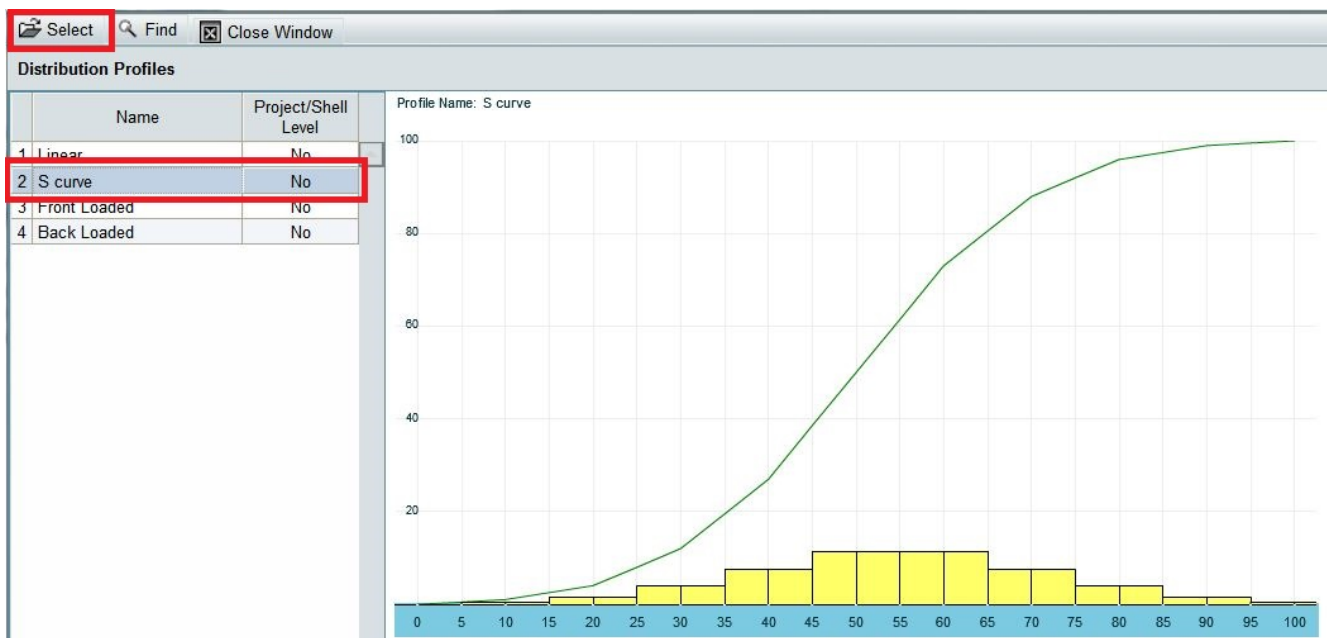


The screenshot shows a software window titled "WBS Details". At the top, there is a toolbar with buttons for "Save", "Bulk Edit" (highlighted with a red box), "Find", and "Close Window". Below the toolbar is a table with three columns: "WBS Code", "WBS Item", and "Default Profile".

WBS Code	WBS Item	Default Profile
03-03T	Thermal Work	
03-03A	Wood & Plastic Work	
02-02C	Metal Work	
02-02B	Masonry Work	
02-02A	Concrete Work	
01-01B	Site Excavation	
01-01A	Site Design	

There are four default profiles to pick from: Linear, S Curve, Front Loaded and Back Loaded.

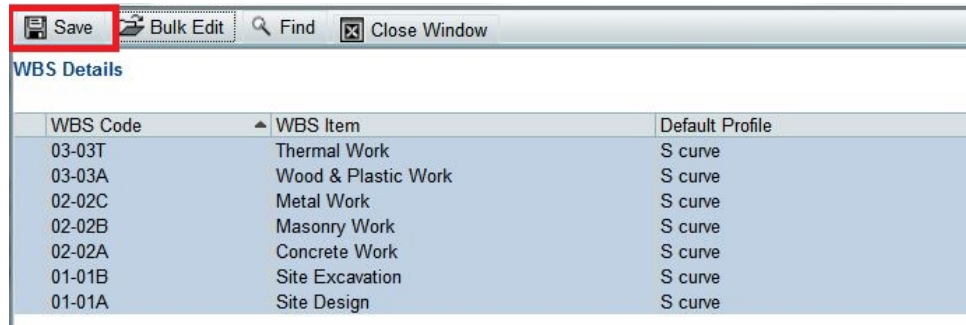
6. In the example the S Curve is selected:
 - a. Select the desired row.
 - b. Click Select.



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All WBS Code (Cost Code) rows now have the distribution profile S Curve.

7. Click Save will also close the window.

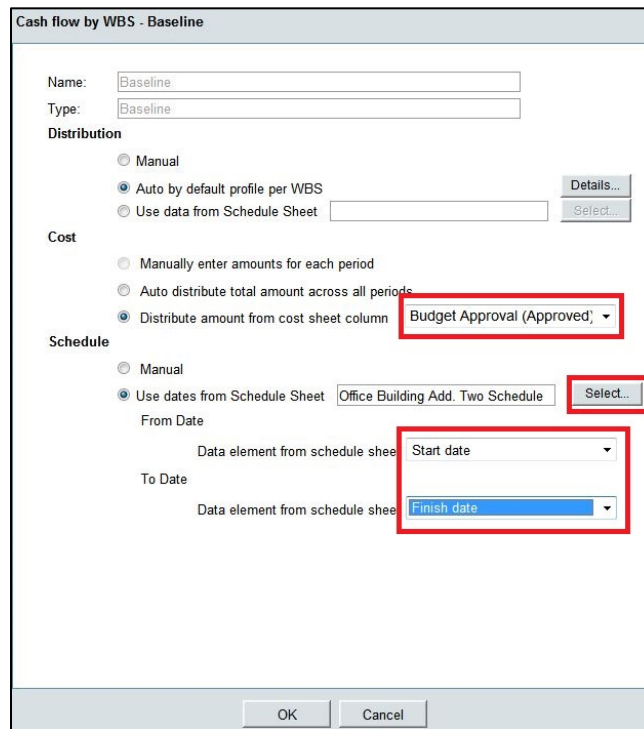


WBS Code	WBS Item	Default Profile
03-03T	Thermal Work	S curve
03-03A	Wood & Plastic Work	S curve
02-02C	Metal Work	S curve
02-02B	Masonry Work	S curve
02-02A	Concrete Work	S curve
01-01B	Site Excavation	S curve
01-01A	Site Design	S curve

The curve now needs to know which cost data to use from the cost sheet and also how the distribution will be allocated over time (in months). This example the Budget amounts are used and distributed over date ranges from the schedule sheet. These date ranges look at the earliest Start Date and latest Finish Date for activities per assigned Cost Code.

8. In the Cost section:
 - a. Select Distribute amount from cost sheet column radio button.
 - b. Select the appropriate business process (with specific status). This example will use approved Budget Approval business process records.
9. In the Schedule section:
 - a. Select Use Dates from Schedule Sheet radio button.
 - b. Click Select.
 - c. Select Start Date for the From Date and Finish Date for the To Date.
 - d. Click OK to close the window.

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The dialog box is titled "Cash flow by WBS - Baseline". It contains the following sections:

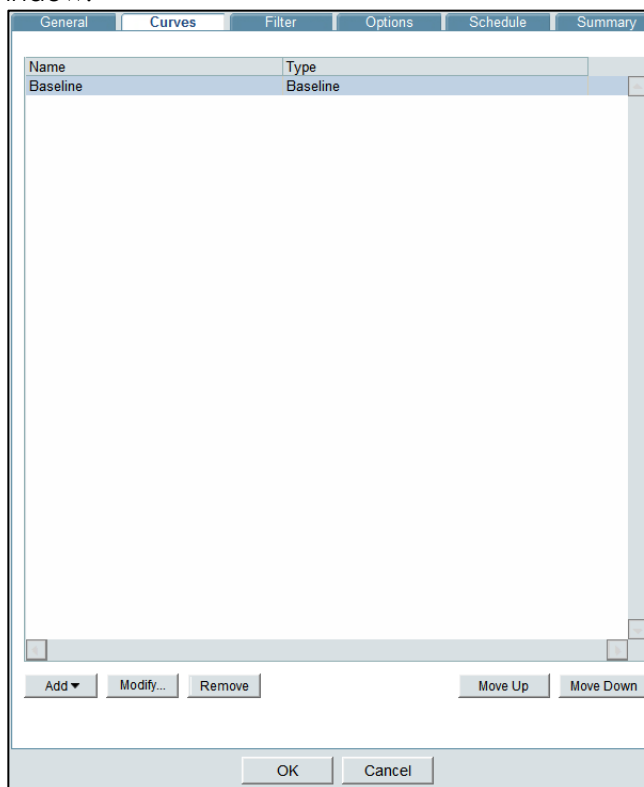
- Name:** Baseline
- Type:** Baseline
- Distribution:**
 - ☐ Manual
 - ☒ Auto by default profile per WBS
 - ☐ Use data from Schedule Sheet
- Cost:**
 - ☐ Manually enter amounts for each period
 - ☐ Auto distribute total amount across all periods
 - ☒ Distribute amount from cost sheet column
- Schedule:**
 - ☐ Manual
 - ☒ Use dates from Schedule Sheet

Additional fields and buttons include:

- Details...** button next to Distribution.
- Select...** button next to Use data from Schedule Sheet.
- Office Building Add. Two Schedule** text field.
- From Date:** Data element from schedule sheet: Start date
- To Date:** Data element from schedule sheet: Finish date
- OK** and **Cancel** buttons at the bottom.

The newly created baseline curve is listed.

10. Click OK to close the window.



The window has tabs: General, Curves, Filter, Options, Schedule, Summary. The Curves tab is active, showing a table with the following data:

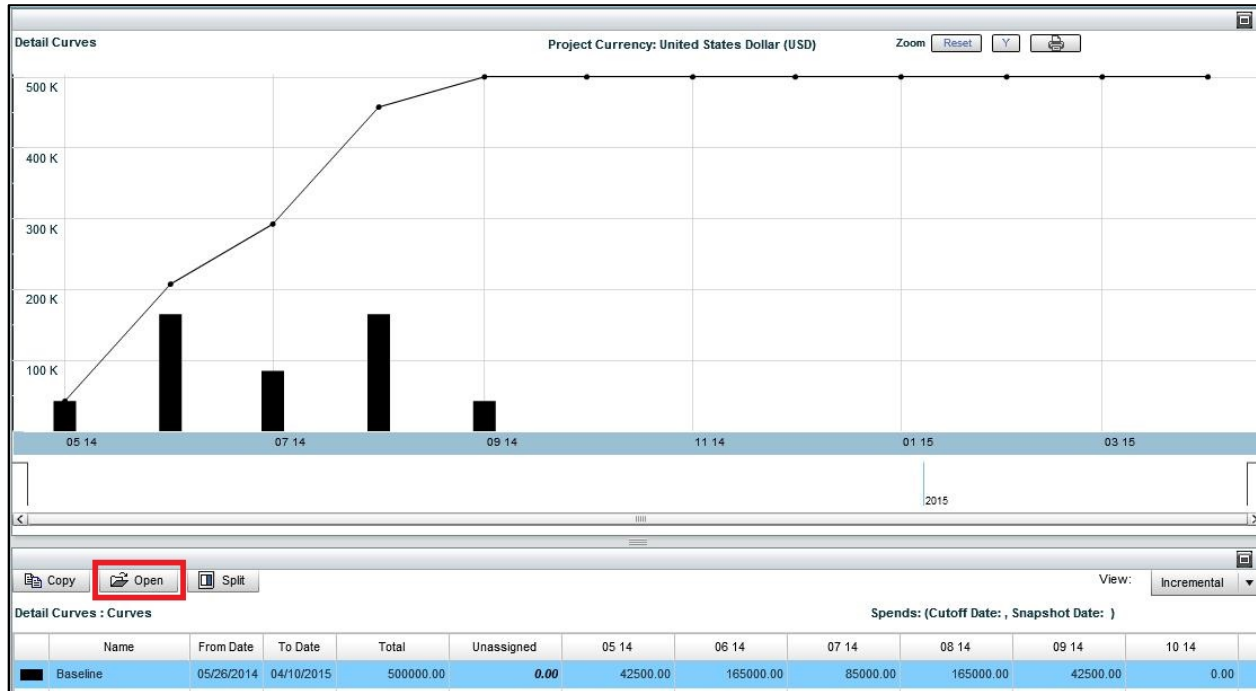
Name	Type
Baseline	Baseline

At the bottom of the window are buttons: Add, Modify, Remove, Move Up, Move Down, OK, and Cancel.

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The cash flow curve window will automatically appear showing the example baseline curve. The rolled up summary budget amounts (per month) can be seen in the row in the bottom pane. The From and To Date represent the earliest Start and latest Finish Date of activities that have cost data assigned per Cost Code.

Selecting the row and clicking Open will bring up the details for the curve.



In this example there were two Cost Codes assigned to activities that had approved budget amounts. Note how each budget amount per Cost Code is distributed between the corresponding From and To Dates.

Number	Name	From Date	To Date	Profile	Total	Unassigned	05 14	06 14	07 14	08 14	09 14
01-01A	Site Design	05/26/2014	07/18/2014	S curve	250000.00	0.00	42500.00	165000.00	42500.00		
01-01B	Site Excavation	07/21/2014	09/19/2014	S curve	250000.00	0.00			42500.00	165000.00	42500.00
02-02A	Concrete Work	09/22/2014	11/07/2014	S curve	0.00	0.00					0.00
02-02B	Masonry Work	11/10/2014	12/05/2014	S curve	0.00	0.00					
02-02C	Metal Work	12/08/2014	01/16/2015	S curve	0.00	0.00					
03-03A	Wood & Plastic Work	01/19/2015	03/06/2015	S curve	0.00	0.00					
03-03T	Thermal Work	03/09/2015	04/10/2015	S curve	0.00	0.00					
Total					500000.00	0.00	42500.00	165000.00	85000.00	165000.00	42500.00