



Explore API Documentation

SelfService_Estimate_CostItem

CalculatedTotalPayCosts

Version 1.0

Last Modified: 11/14/2023

Last Modified By: Aaron Cohen

Change Log

This changelog only contains significant or notable changes to the revision. Any editorial type changes or minor changes are not included.

Revision	Change Date	Description	Modified By
1.0	6/6/2022	Initial draft	Aaron Cohen

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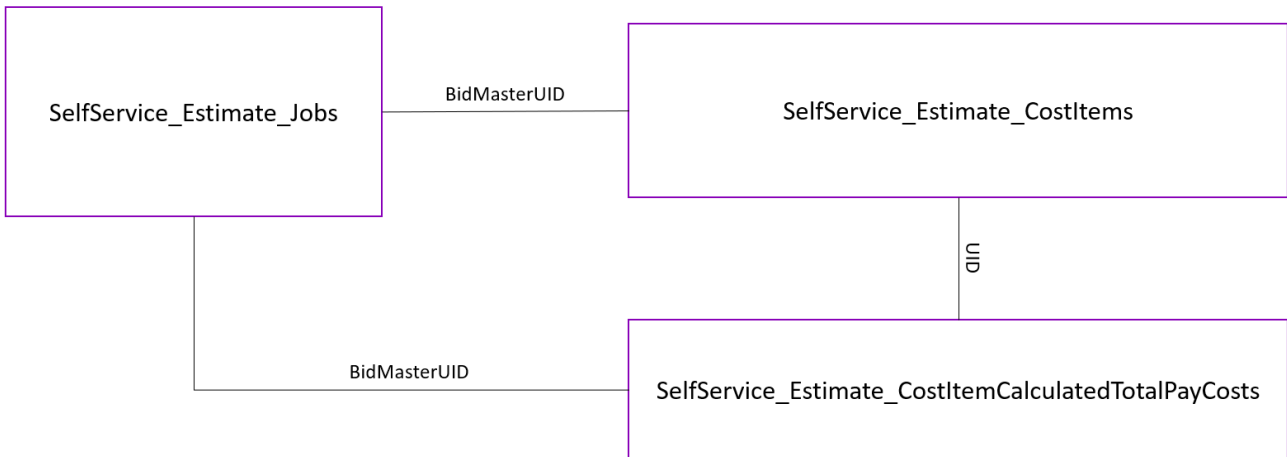
Overview

The **SelfService_Estimate_CostItemCalculatedTotalPayCosts** API is one of multiple APIs comprising the data contained in the Estimate Cost Item entity. A Cost Item is an item representing an activity for a scope of work being estimated. It is commonly a collection of resource employments, labor, equipment, material, etc., whose quantities are related to the amount or work or duration of the activity. The total cost of a Cost Item can be based on its detailed resource employments, or it can be a plug cost, or it can be determined from the proportional amount of an awarded quote. Cost Items have a position in a hierarchy of costs, all or which roll up to the Job level, which is the top level cost item representing the projects total estimated cost. Terminal level cost items are where all the costs in an estimate exist, either as detailed, plugged or quoted costs, and superior cost items are cost items having subordinate and/or terminal cost items belonging to them. Superior Cost Items do not contribute to the cost of the estimate but rather roll up the costs of all cost items belonging to them.

Data fields included in the **SelfService_Estimate_CostItemCalculatedTotalPayCosts** are the Total Cost values by Cost Category for Cost Items as derived by factoring the Cost Items Total Cost using the difference between the Forecast (T/O) Quantity and the assigned Pay Item Quantity.

Relationships and Dependencies

From: Table	To: Table	Relationship	Cardinality ¹	Comment
CostItemCalculatedTotalPayCosts (CICTPC)	Jobs (J)	CICTPC.BidMasterJobUID = J.BidMasterJobUID	M:1	
CostItemCalculatedTotalPayCosts (CICTPC)	CostItems (CI)	CICTPC.UID = CI.UID	1:1	



¹ 1:M = One to Many, 1:1 = One to One, M:1 = Many to one



API Detail

Direction	From Project Suite	
Pagination	50,000 Rows	
Frequency	All Reporting APIs are used by calling a GET method at an interval determined by the customer. InEight suggests using these APIs on an infrequent basis (once per day) to avoid potential performance impact to live systems when the returned data set could be large.	
Trigger Method(s)	All default OData filters are supported	
Average Payload Size	Depends on date range selected	
APIM Name	SelfService_Estimate_CostItemCalculatedTotalPayCosts	
Data Refresh/Delta/Incremental Loads		
Project Suite	Starting Version	23.4
	Ending Version	N/A

Supported Filters

All default OData filters are supported by this API.

Fields

Name	Type	Char Max Length	Numeric Precision	Date Precision	Product	PK
EstimateCostItemCalculatedTotalPayCostId	bigint	8	19	0	Estimate	X
EstimateCostItemCalculatedTotalPayCostUF	uniqueidentifier	16	0	0	Estimate	
EstimateCostItemCalculatedValueUID	uniqueidentifier	16	0	0	Estimate	
C_CategoryTotalPayCost_0	float	8	53	0	Estimate	
C_CategoryTotalPayCost_1	float	8	53	0	Estimate	
C_CategoryTotalPayCost_2	float	8	53	0	Estimate	
C_CategoryTotalPayCost_3	float	8	53	0	Estimate	
C_CategoryTotalPayCost_4	float	8	53	0	Estimate	
C_CategoryTotalPayCost_5	float	8	53	0	Estimate	
C_CategoryTotalPayCost_6	float	8	53	0	Estimate	
C_CategoryTotalPayCost_7	float	8	53	0	Estimate	
C_CategoryTotalPayCost_8	float	8	53	0	Estimate	
C_CategoryTotalPayCost_9	float	8	53	0	Estimate	

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C_CategoryTotalPayCost_98	float	8	53	0	Estimate	
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C_CategoryTotalPayCost_100	float	8	53	0	Estimate	
C_CategoryTotalPayCost_101	float	8	53	0	Estimate	
C_CategoryTotalPayCost_102	float	8	53	0	Estimate	
BidMasterJobUID	uniqueidentifier	16	0	0	Estimate	
LastUpdateID	int	4	10	0	Estimate	
IsActive	bit	1	1	0	Estimate	
CreatedById	bigint	8	19	0	Estimate	
CreatedDate	datetimeoffset	10	34	7	Estimate	
ModifiedById	bigint	8	19	0	Estimate	
ModifiedDate	datetimeoffset	10	34	7	Estimate	

Field Descriptions

Name	Description	Example
EstimateCostItemCalculatedTotalPayCostId	Unique identifier assigned to each record in the table	2386702
EstimateCostItemCalculatedTotalPayCostUF	System generated field, for internal use only	2d9ae57b-e145-0e47-05c5-102db00ebb11
EstimateCostItemCalculatedValueUID	Unique identifier for the Cost Item. Not visible in the Interface	f35992fc-451c-487c-a0a2-cdad40f9bea2
C_CategoryTotalPayCost_0	Total Cost based on Pay Quantity	65298.592
C_CategoryTotalPayCost_1	Labor Total Cost based on Pay Quantity	30119.925333333333
C_CategoryTotalPayCost_2	Labor Base Total Cost based on Pay Quantity	23018.666666666664



C_CategoryTotalPayCost_3	Labor Burden Total Cost based on Pay Quantity	7101.258666666666
C_CategoryTotalPayCost_4	Labor Fringes Total Cost based on Pay Quantity	2071.68
C_CategoryTotalPayCost_5	Travel Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_6	Premium Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_7	Holiday Total Cost based on Pay Quantity	230.1866666666667
C_CategoryTotalPayCost_8	Savings Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_9	Pension Total Cost based on Pay Quantity	690.56
C_CategoryTotalPayCost_10	Vacation Total Cost based on Pay Quantity	460.3733333333334
C_CategoryTotalPayCost_11	Subsistence Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_12	Health & Welfare Total Cost based on Pay Quantity	690.56
C_CategoryTotalPayCost_13	Apprenticeship Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_14	Undefined Fringe 1 Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_15	Undefined Fringe 2 Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_16	Undefined Labor Fringes Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_17	Labor Insurance Total Cost based on Pay Quantity	2071.68
C_CategoryTotalPayCost_18	Bodily Injury & Property Damage Total Cost based on Pay Quantity	920.7466666666668
C_CategoryTotalPayCost_19	Workers Compensation Total Cost based on Pay Quantity	1150.9333333333332
C_CategoryTotalPayCost_20	Undefined Insurance 1 Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_21	Undefined Insurance 2 Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_22	Undefined Labor Insurance Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_23	Labor Taxes Total Cost based on Pay Quantity	2957.898666666666
C_CategoryTotalPayCost_24	FICA Total Cost based on Pay Quantity	1806.9653333333333
C_CategoryTotalPayCost_25	FUTA Total Cost based on Pay Quantity	460.3733333333334
C_CategoryTotalPayCost_26	SUTA Total Cost based on Pay Quantity	690.56
C_CategoryTotalPayCost_27	Undefined Tax 1 Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_28	Undefined Labor Taxes Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_29	Undefined Labor Burden Total Cost based on Pay Quantity	0



C_CategoryTotalPayCost_30	Undefined Labor Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_31	Owned Equipment Total Cost based on Pay Quantity	35178.666666666664
C_CategoryTotalPayCost_32	OE Ownership Total Cost based on Pay Quantity	8960
C_CategoryTotalPayCost_33	OE Depreciation Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_34	OE Overhead Total Cost based on Pay Quantity	2560
C_CategoryTotalPayCost_35	OE Cost of Facilities Capital (Cfc) Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_36	OE Insurance Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_37	OE License Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_38	OE Taxes Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_39	OE Overhaul Parts Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_40	OE Overhaul Labor Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_41	OE Undefined Ownership 1 Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_42	Undefined OE Ownership Total Cost based on Pay Quantity	6400
C_CategoryTotalPayCost_43	OE Operation Total Cost based on Pay Quantity	26218.666666666668
C_CategoryTotalPayCost_44	OE Repair Parts Total Cost based on Pay Quantity	1066.6666666666665
C_CategoryTotalPayCost_45	OE Repair Labor Total Cost based on Pay Quantity	1557.3333333333333
C_CategoryTotalPayCost_46	OE Fuel Total Cost based on Pay Quantity	21248.000000000004
C_CategoryTotalPayCost_47	OE Lube Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_48	OE Tires & Tracks Total Cost based on Pay Quantity	1280
C_CategoryTotalPayCost_49	OE Ground Engaging Components Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_50	OE Undefined Operation 1 Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_51	Undefined OE Operation Total Cost based on Pay Quantity	1066.6666666666665
C_CategoryTotalPayCost_52	Undefined Owned Equipment Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_53	Rented Equipment Total Cost based on Pay Quantity	0
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C_CategoryTotalPayCost_56	RE Overhead Total Cost based on Pay Quantity	0

C_CategoryTotalPayCost_57	RE Finance Expense Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_58	RE Insurance Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_59	RE License Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_60	RE Rental Taxes Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_61	RE Overhaul Parts Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_62	RE Overhaul Labor Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_63	RE Undefined Rent 1 Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_64	Undefined RE Rental Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_65	RE Operation Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_66	RE Repair Parts Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_67	RE Repair Labor Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_68	RE Fuel Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_69	RE Lube Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_70	RE Tires & Tracks Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_71	RE Ground Engaging Components Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_72	RE Undefined Operation 1 Total Cost based on Pay Quantity	0
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C_CategoryTotalPayCost_76	Undefined Supplies Total Cost based on Pay Quantity	0
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C_CategoryTotalPayCost_78	Installed Equipment Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_79	Installed Materials Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_80	Construction Supplies Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_81	Undefined Materials Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_82	Subcontract Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_83	Subcontract Price Total Cost based on Pay Quantity	0



C_CategoryTotalPayCost_84	Subcontract Conditions Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_85	Subcontract Taxes Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_86	Subcontract Bond Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_87	Undefined Subcontract Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_88	Fees Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_89	Job Bond Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_90	Job Insurance Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_91	Finance Expense Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_92	Business Taxes Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_93	Sales Taxes Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_94	Fees Undefined 1 Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_95	Undefined Fees Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_96	Allowance Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_97	Risk Allowance Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_98	Contingency Allowance Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_99	Adjustment Allowance Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_100	Undefined Allowance Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_101	Custom Category 1 Total Cost based on Pay Quantity	0
C_CategoryTotalPayCost_102	Undefined Total Cost based on Pay Quantity	0
BidMasterJobUID	Identifier of the Job record from the Jobs table in the BidMaster database. This field is not unique in this table but is unique to an instance of a Job. Not visible in the application based on Pay Quantity	dec37787-a459-463b-a567-dd80f0f705b3
LastUpdateID	Field for internal use only based on Pay Quantity	727
IsActive	Indicates if record is active. Please note: records will become inactive if a user un-syncs a job from Estimate application based on Pay Quantity	true
CreatedById	System generated Id, will always represent the system, not actual users. This field is for internal use	1

	only based on Pay Quantity	
CreatedDate	Date/timestamp record is entered based on Pay Quantity	2023-06-05T20:53:47.2982174Z
ModifiedById	System generated Id, will always represent the system, not actual users. This field is for internal use only based on Pay Quantity	1
ModifiedDate	Date/timestamp record is modified based on Pay Quantity	2023-06-05T20:53:47.2982174Z

Sample

```
{
  "EstimateCostItemCalculatedTotalPayCostId": 2386702,
  "EstimateCostItemCalculatedTotalPayCostUF": "2d9ae57b-e145-0e47-05c5-102db00ebb11",
  "EstimateCostItemCalculatedValueUID": "f35992fc-451c-487c-a0a2-cdad40f9bea2",
  "C_CategoryTotalPayCost_0": 65298.592,
  "C_CategoryTotalPayCost_1": 30119.925333333329,
  "C_CategoryTotalPayCost_2": 23018.666666666664,
  "C_CategoryTotalPayCost_3": 7101.2586666666657,
  "C_CategoryTotalPayCost_4": 2071.68,
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"C_CategoryTotalPayCost_102": 0.0,  
"BidMasterJobUID": "dec37787-a459-463b-a567-dd80f0f705b3",  
"LastUpdateID": 727,  
"IsActive": true,  
"CreatedById": 1,  
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"ModifiedById": 1,  
"ModifiedDate": "2023-06-05T20:53:47.2982174Z"  
}
```



Data Validation

Pay Cost Data can be validated by running various reports that show the Cost Items Total Cost as factored by the difference between the Forecast (T/O) Quantity and the assigned Pay Quantity.

Figure 1: Pay Item Summary Report showing the factored Cost Item values

Pay Item Summary		Job Code: Training Job - Reporting		Description: Training Job used for Reporting		From Item: 641 0100		To Item: 001		Unit and Total Cost by Category		Unassigned Cost		Markup Analysis		Pay Item Pr						
Position Code	Pay Item No. Description	Quantity Unit	Total Cost	Assigned Labor Base	Labor	Owned	Rented	Materials	Supply	Subcontract	1	Free Allowance	Custom Category	Undefined	Direct Cost Job Overhead	Business Overhead	Markup Rate	Markup Amount	Margin Rate	Unit Price		
1	641 0100 Mobilization	1.00 Lump Sum	15,800.17	12,709.51	1,872.00	1,377.51	8,950.00	0.00	0.00	0.00	0.00	0.00	800.00	0.00	0.00	0.01	2,147.91	83.150	2,369.81%	271,119.63	95.95%	306,800.00
1	Mobilization	1.00 Lump Sum	12,709.51	1,872.00	1,377.51	8,950.00	0.00	0.00	0.00	0.00	0.00	0.00	800.00	0.00	0.00	0.01	2,147.91	83.150	2,369.81%	271,119.63	95.95%	306,800.00
2	201 0102 Cleaning & Grubbing	10.00 Acre	4,785.04	3,918.00	1,060.00	327.28	2,425.44	0.00	0.00	0.00	0.00	0.00	8.00	100.00	0.00	0.25	864.95	222.54	29.25%	1,364.38	22.62%	6,120.00
2	Cleaning & Grubbing	10.00 Acre	39,184.97	10,600.00	3,272.97	24,284.40	0.00	0.00	0.00	0.00	0.00	0.00	80.00	1,000.00	0.00	2.80	6,548.82	2,823.44		10,843.97		
3	202 0183 Unclassified Excavation	50,000.00 Cubic Yard	3.12	2.89	0.49	0.18	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.18	172.85%	5.38	63.35%	8.50
3	Unclassified Excavation	50,000.00 Cubic Yard	144,882.82	24,499.80	8,088.72	112,016.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.22	1,892.73	9,308.08		289,229.48		
3.1	Excavation	42,000.00 Cubic Yard	144,882.82	24,499.80	8,088.72	112,016.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	303 9912 Aggregate Base	40,000.00 Ton	269.82	277.22	88.40	14.33	198.07	0.00	8.97	0.00	0.00	0.48	0.00	0.00	0.00	0.02	0.74	17.88	40.84%	(778.82)	1,288.28%	22.00
4	Aggregate Base	40,000.00 Ton	11,962,880.83	11,088,828	2,218,912.5	873,919.69	7,922,908.4	0.00	388,843.33	0.00	0.00	17,842.17	0.00	0.00	0.00	707.28	149,476.90	719,870.82		(1,072,880.83)		
0.7	Direct Cost Add-On	1.00 Lump Sum	357,401.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Aggregate Base	40,000.00 Ton	10,731,424	48,446	14.33	198.07	0.00	8.97	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.1	Furnish & haul Base Material	40,000.00 Ton	10,731,424	1,880,410.0	873,919.69	7,922,908.4	0.00	388,843.33	0.00	0.00	17,842.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.2	Finerick Subprice	355,555.56 Square Yard	87,420.76	0.87	0.21	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.3	Instal Aggregate Base	40,000.00 Ton	86,728.52	0.86	0.27	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.3.1	Place Aggregate Base	40,000.00 Ton	86,268.89	0.86	0.18	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.3.2	Blue Top Aggregate Base	355,555.56 Square Yard	21,427.91	0.25	0.06	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

