



Explore API Documentation

Control Actuals Reporting Version 1.0

Last Modified: 8/24/2022 Last Modified By: Natalie Takacs

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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	8/24/2022	Initial release	Natalie Takacs

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Overview

Due to architectural changes made in the Control application, the **SelfService_Control_CostItemActual** API will be deprecated in the 22.8 release. The API will still exist in this release, but no data will flow through it. The following new APIs will be replacing the existing API:

- SelfService_Control_ActualVendorHours
- SelfService_Control_ActualCost
- SelfService_Control_ActualManHours
- SelfService_Control_ActualQuantity

Reporting instructions

There are two ways to bring this data together in Power BI for reporting. The new APIs can be joined together in the "Model" section in Power BI or, once the APIs have been pulled into the PBIX file they can be appended together into one table in the "Edit Query" mode. For larger data volumes, the "Join Method" may have faster refresh performance. Both methods will allow information to be reported as follows.

-		1	_		76	«	Visualizations	>>	Fields >>>	
CostItemId	CalendarDate	Cost	Quantity	ManHours	ClaimedManHr 🔺		Build visual	0		
1000	4/24/2018	98.48		2.00		lter				
	4/28/2018	4.80	3.00	0.00		s,			> E. SelfService_Control_ActualCost	
	5/8/2018	551.62		10.00					> SelfService_Control_ActualManhours	
	5/15/2018	310.40		6.00					> 🗊 SelfService_Control_ActualQuantity	
	5/26/2018	69.60	7.00	98.50					$>$ \blacksquare SelfService_Control_ActualVendorHours	
	6/5/2018	278.40		6.00					> 🖶 SelfService_Control_CostItem	
	6/12/2018	412.56		8.00				Py 🖻		
	6/19/2018	46.40		1.00			-4 🖓 🔁 🛄	∕ ⊗		
	6/26/2018	326.16		6.00			≫ …			
	6/30/2018	44.00	47.00	1.00			Columns			
	7/5/2018	1,643.21		0.00			CostItemId	× ×		
	7/9/2018	4,500.00		0.00			CalendarDate	V X		
	7/10/2018	162.40		3.50			Cost	× ×		
	7/17/2018	756.84		11.50]	Quantity	~×		
	7/24/2018	1,743.27		27.00			ManHours	~×		
	7/28/2018		28.00				ClaimedManHr	××		
	8/11/2018	422.53		3.50						
	8/18/2018	-17.52		0.00			Drill through			
	8/25/2018	1,086.15		10.00			Cross-report			
	8/30/2018	5,549.12		0.00			Keep all filters	On		
	9/14/2018	-17,988.42		-97.00			Add drill-through fiel	ds here		
	9/29/2018		-85.00							
	10/27/2018	309.84		6.00						
	11/6/2018	753.77		12.00						
	11/13/2018	241.76		4.00						
-	1/22/2019	793.33		14.00						
Total		77,302.21	7,170,734.57	225.50	·					



The "Join Method"

All four of the new APIs will join to the SelfService_Control_CostItem API on the CostItem field. They should also be joined to the SelfService_Calendar table on the PostedDate to the CalendarDate. Please see the table below for the specific join information. Joining to the Cost Item and Calendar APIs create a common reference across the new APIs to the Cost Items and Posted dates.

From: Table	To: Table	Relationship	Cardinality
SelfService_Control_CostItem	SelfService_Control_ActualVendorHours	CI.CostItem=	1:M
(CI)	(AVH)	AVH.CostItem	
SelfService_Control_CostItem	SelfService_Control_ActualCost	CI.CostItem=	1:M
(CI)	(AC)	AC.CostItem	
SelfService_Control_CostItem	SelfService_Control_ActualManHours	CI.CostItem=	1:M
(CI)	(AMH)	AMH.CostItem	
SelfService_Control_CostItem (CI)	SelfService_Control_ActualQuantity (AQ)	CI.CostItem= AQ.CostItem	1:M
SelfService_Calendar	SelfService_Control_ActualVendorHours	C.CalendarDate=	1:M
(C)	(AVH)	AVH.PostedDate	
SelfService_Calendar	SelfService_Control_ActualCost	C.CalendarDate=	1:M
(C)	(AC)	AC.PostedDate	
SelfService_Calendar	SelfService_Control_ActualManHours	C.CalendarDate=	1:M
(C)	(AMH)	AMH.PostedDate	
SelfService_Calendar (C)	SelfService_Control_ActualQuantity (AQ)	C.CalendarDate= AQ.PostedDate	1:M





The "Append Method"

Appending tables in Power BI will combine the results of the four new APIs into one table in PowerQuery by combining data with the same column names into one column, and for columns with unique names, "NULL" values will be filled into rows containing data from the other tables where a value may not exist. To learn more about the Append function, please visit the following link: <u>https://docs.microsoft.com/en-us/power-guery/append-queries</u>. To Append these APIs in your Power BI file, from your "Report" select the "Transform data" button in the top ribbon.

File Home	e Insert	Modeling	View	Help						
Paste	Get data v	Excel Da	ta SQL	Enter Dataverse data	Recent sources +	Transform Refresh data v	New Text More visual box visuals v	New Quick measure measure	Sensitivity Y	Publish
Clipboard			Data			Queries	Insert	Calculations	Sensitivity	Share

This will bring you to the "Power Query Editor" otherwise known as "Edit query" mode. In the top ribbon of the new window, select Append Queries > Append Queries as New.

rite	Home Transform	Add Column	view 10	bols Help							
×				Properties			Ž↓ Z⊥	r İ h "	Data Type: Any •	Merge Queries Text A	Analytics
Close & Apply •	New Recent Enter Source - Sources - Data	Data source settings	Manage Parameters •	Refresh Preview • 🔝 Manage •	Choose Remove Columns • Columns •	Keep Remove Rows • Rows •	~	Split G Column ▼	By 32 Replace Values	Append Queries	Aachine Learning
Close	New Query	Data Sources	Parameters	Query	Manage Columns	Reduce Rows	Sort		Transform	🚟 Append Queries as New	Insights
										2	

A dialog box will appear, select "Three or more tables" and "Add" the four new API tables.

Append

O Two tables

. .

Concatenate rows from three or more tables into a single table.

Three or more tables

Available tables

SelfService_Control_ActualCost

SelfService_Control_ActualManhours

SelfService_Control_ActualQuantity

SelfService_Control_ActualVendorHours

SelfService_Control_CostItem

SelfService_Calendar

Add >>

OK

The new table will appear on the left-hand side as "Append1." Here, you can rename the table. Then, click "Close & Apply" to apply the changes in your report.

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