

InEight Control Integration Specification



InEight
CONTROL



Changelog

This changelog contains only significant or other notable changes to the document revision. Editorial or minor changes that do not affect the context of the document are not included in the changelog.

Rev	Date	Description
1.0	23-MAY-2019	Initial Release.
		Minor updates to clarify wording and concepts. Added Actual Quantities integration. Revised all information about Cost Items (Generic) integration to trim down the field requirements and make the use of the integration easier to understand.
		Updated configuration entities for Cost Breakdown Structure , Budget , Actual Cost and Man Hours (Request) , and Actual Quantity to match changes in the UI. Deleted rows in API tables for Supports Bulk Upsert and Supports Delta. Published release.
		Clarified information about the LogToken between synchronized integrations and the confirmation message.
		Added 19.9 configuration information for Actuals (Generic) . Added new non-breaking fields for Cost Breakdown Structure . Added new fields (Tag12 and UserDefined10) in the Cost Item API .
2.0	23-AUG-2019	Published revision.
3.0	21-JAN-2020	Added integrations that include: Push Billed Revenue , Get Billed Revenue (Request) , Get Billed Revenue (Response) , Billed Revenue (Generic) , and Push Time Phased Forecast . Published revision (Release 19.11).
	23-MAR-2020	Added Committed Cost (Request) and Committed Cost (Response) integrations.
4.0	31-MAR-2020	Updated APIM Name in Committed Cost (Response) , Get Billed Revenue (Response) , and Billed Revenue (Generic) integrations. Published revision (Release 20.2).
5.0	31-AUG-2020	Removed reference and description of the ActualQuantity_GET API from Actual Cost and Man Hours (Response) . This API along with ResourceCategoryCosts_Import and CostItemResources_Import were deprecated from APIM. Published revision. (Release 20.5)
6.0	15-SEP-2020	Added integration for Committed Cost (Generic) . Published revision. (Release 20.7)
7.0	06-OCT-2020	Added Logger array, associated fields, and sample error messages in Control Confirmation , Actual Cost and Man Hours (Response) , Committed Cost (Response) , Get Billed Revenue (Response) . Updated Field Descriptions in Cost Breakdown Structure for Start, Finish, ActualStart, ActualFinish, EarlyStart, EarlyFinish, LateStart, LateFinish. Added the 13, 14 fields in Push Time Phased Forecast for ForecastManhours and ForecastQuantity. Corrected ProjectNumber field description in Cost Item (Generic) . Published revision. (Release 20.9)

8.0	15-JAN-2021	<p>Added Pay Items, Push Billed Revenue, and Forecast Revenue to Control Confirmations. Added integration Push Forecast Revenue. Added PayItemNumber, PayItemDescription, PayItemSourceSystemId fields to Cost Breakdown Structure. Added SourceSystemId field to Pay Items. Added Count field to Actual Quantities. Added PayItemSourceSystemId field to Push Billed Revenue, Get Billed Revenue (Response), and Billed Revenue (Generic). PayItemSourceSystemId is required in response as the matching identifier, was previously PayItemNumber. Published revision (20.11)</p>
9.0	03-MAR-2021	<p>Added integration Push Time Phased Budget. Published revision (Release 21.1)</p>
10.0	13-APR-2021	<p>Added IssueName, IssueId, ChangeId fields in Cost Breakdown Structure. Published revision (Release 21.3)</p>
11.0	02-JUL-2021	<p>Added integration Sales Order. Updated Integration Status validation section in Cost Item. Added fields for original pay item data in Pay Items. Added UnapprovedRevenue fields in Push Forecast Revenue. Published revision (Release 21.5)</p>
12.0	17-SEP-2021	<p>Added LiveForecastCost array and fields in Push Time Phased Forecast sync. Added integration Multiple Project Actuals. Published revision (Release 21.7)</p>
13.0	25-OCT-2021	<p>Added PayItemPosition and IsTerminal fields in Pay Items. Added error messages for Get Billed Revenue (Response) and Billed Revenue (Generic). See Verifying Integration Events in InEight Control for error messaging. Published revision (Release 21.10)</p>
14.0	13-JAN-2022	<p>Added ChangeOrderSourceSystemId, ChangeOrderNumber, and ChangeOrderDescription fields in Push Billed Revenue. Added details for reponse options in Actual Cost and Man Hours (Response). Updated PayItemSourceSystemId description in Get Billed Revenue (Response) and Billed Revenue (Generic). Published revision (Release 21.12)</p>
15.0	04-MAR-2022	<p>Added RetentionWithHeld and BilledRevenueNet fields in Push Billed Revenue, Get Billed Revenue (Response), and Billed Revenue (Generic). Added RetainagePercentage, RetentionWithHeld, and NetBilledRevenue fields in Pay items. Updated for clarification ProjectId, ProjectDisplay, ProjectDisplayId, and ProjectDisplayNumber field descriptions. Updated InterfaceType field description in Control Confirmation. Published revision (Release 22.2)</p>
16.0	12-JUL-2022	<p>Added EnabledForecastMethod field and decriptions for ForecastManhours and ForecastQuantity fields to Push Time Phased Forecast. Added Integration Status to Actuals (Generic) for options to receive integration status automatically. Added recommendations for payloads in Actuals (Generic), Cost Item (Generic), Multiple Project Actuals (Generic). Published revision (Release 22.4)</p>

17.0	23-SEP-2022	Added DirectPayitemNumberAssigned and DirectPayitemSourceSystemIDAssigned fields to Cost Breakdown Structure . Added message formatting and error codes to Integration Status in Actuals (Generic) . Published revision (Release 22.8)
18.0	03-NOV-2022	Added Integration Status information for the Location field and the URI in the header to Actual Cost and Man Hours (Response) , Billed Revenue (Generic) , and Multiple Project Actuals (Generic) . Published revision (Release 22.10)
19.0	23-JAN-2023	Added Unit of Measure section for clarification. Added AveragePerformanceSetting field to Forecast . Added ForecastManhours, ForecastQuantity, AveragePerformanceSetting, and the 16 fields to Push Time Phased Forecast . Published revision (Release 22.12)
20.0	16-MAR-2023	Added ContributingUnapprovedRevenue field to Push Forecast Revenue . Added an overview to Actual Quantities . Published revision (Release 23.2)
21.0	23-MAY-2023	Added Get integrations Cost Item (Generic) , Budget (Generic) , Forecast (Generic) , Time Phased Budget (Generic) , and Time Phased Forecast (Generic) , Added Post integration for Live Forecast (Generic) . Added Segment1, Segment2, Segment3, and Segment4 fields to Cost Item in Cost Breakdown Structure . Published revision (Release 23.4)
22.0	22-AUG-2023	Added Post integration for Time Phased Forecast (Generic) . Published revision (Release 23.6)
23.0	31-OCT-2023	Added new version (V1) of the Cost Item (Generic) - Post (V1) . Added Exclude Summary option in Cost Item (Generic) – Post (V0). Published revision (Release 23.8)
24.0	22-DEC-2023	Updated API names to match APIM portal. Added Configuration option to Actual Cost and Man Hours (Request). Published revision (Release 23.10)
25.0	05-FEB-2024	Added Get integration for Change Order (Generic) . Published revision (Release 23.12)
26.0	04-JUN-2024	Added Integration Status and Error Codes sections to Get Billed Revenue (Response) – Sync . Added a Get integration for Actuals (Generic) . Published revision (Release 24.5)
26.1	20-AUG-2024	Added NOTE to CBSPosition in Cost Item (Generic) - Post (V1) for when the field is required and not required. Published update
27.0	20-SEP-2024	Added ActualsUserDefined fields and EstimateResource fields to Actual Cost and Man Hours (Response) - Sync , Actual Quantity - Sync , Create Actuals Generic , Create MultiProject Actuals Generic , and List Actuals . Published revision (Release 24.9)

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Overview

This document groups integrations used primarily with InEight Control for operating and accounting of a project.

Integrations in this Document

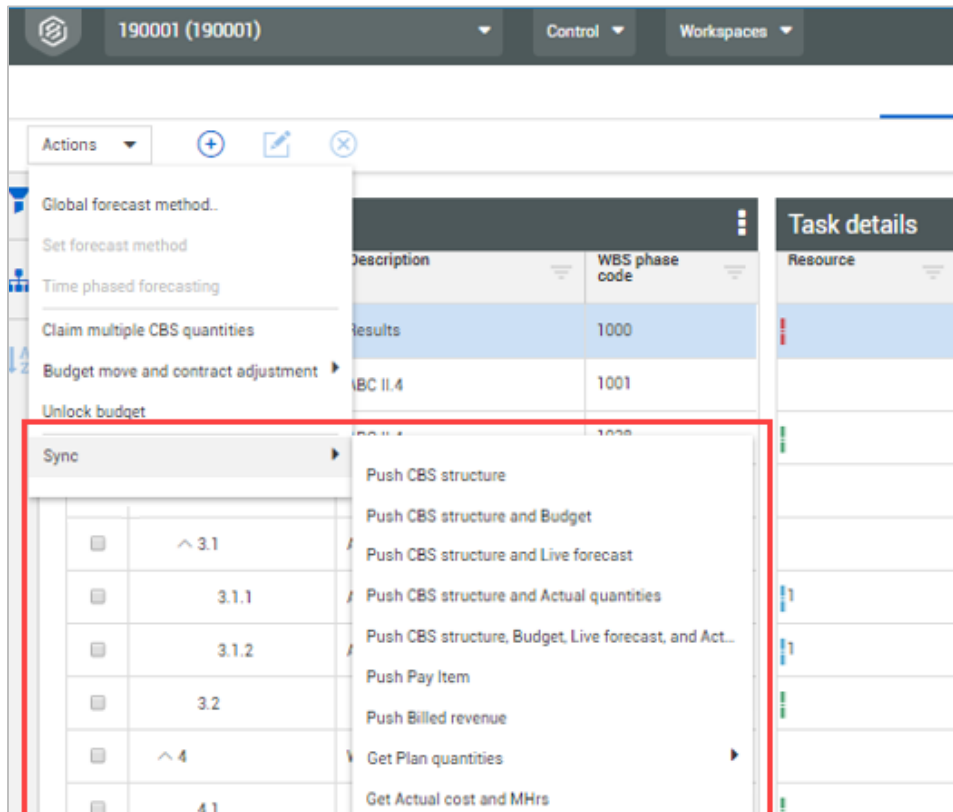
Integration	Description
Cost Breakdown (CBS) Structure - Sync	<p>This integration ensures that the setup and configuration of cost items, including cost item attributes and their hierarchy, are synchronized between InEight and the Enterprise Resource Planning (ERP) or financial system of the InEight customer.</p> <p>This integration is first executed when a new project is ready to become active, and then again preceding any on-demand integration for budget update or forecast.</p>
Budget - Sync	<p>This integration allows InEight customers to send Amount, Quantity, and Man Hours for Original Budget, Current Budget, and Current Estimate for all cost items in a project from InEight Control to an external Enterprise Resource Planning (ERP) or other financial system. Budget values are also broken down by Cost Categories within this integration. Each time the Budget Update integration is executed by a user in Control, the Cost Item Structure integration is initiated first, and a Success message is required to be returned before the Budget data is sent.</p>
Forecast – Sync	<p>This integration sends current Quantities, Values, and Amounts for cost items that have forecast values in a project from the Control application to an external ERP or financial system. Forecast values are also broken down by Cost Categories within this integration. Each time the Forecast integration is executed by a user in Control, the Cost Item Structure integration is initiated first, and a Success message is required to be returned before the Forecast data is sent.</p>
Control Confirmations	<p>This integration is used to provide a required response to receipt of data from the Cost Breakdown Structure, Budget, Forecast, Pay Items, Actual Quantities, Push Billed Revenue, and Push Forecast Revenue.</p>
Actual Cost and Man-hours (Request) – Sync	<p>This integration brings man-hours, equipment hours and cost by Cost Category as recorded by the external ERP or financial system into InEight Control. Use of this integration assumes that the customer considers their ERP or financial system to be the official system of record for all financial information, so that system can be used to true-up or provide additional data for project cost management in Control.</p> <p>This integration is comprised of two separate components. First, a request for data is made from Control to the external system. Then, all the data matching the request from Control is sent in a response from the external system.</p>
Actual Cost and Man-hours (Response) – Sync	<p>See Actual Cost and Man-Hours (Request).</p>
Committed Cost (Request) – Sync	<p>This integration brings total commitment and open commitment cost by Cost Category as recorded by the external ERP or financial system into InEight Control. Use of this integration assumes that the customer considers their ERP or financial system to be the official system of record for all financial information, so that system can be used to true-up or provide additional data for project cost management in Control.</p> <p>This integration is comprised of two separate components. First, a request for data is made from Control to the external system. Then, all the data matching the request from Control is sent in a response from the external system.</p>
Committed Cost (Response) - Sync	<p>See Committed Cost (Request).</p>

Integration	Description
Committed Cost Post (Generic)	This integration brings total commitment and open commitment cost by Cost Category as recorded by the external ERP or financial system into InEight Control. Use of this integration assumes that the customer considers their ERP or financial system to be the official system of record for all financial information, so that system can be used to true-up or provide additional data for project cost management in Control.
Actuals Post (Generic)	This integration is a publicly available API that can be used to provide actual Cost by Cost Category, Quantity, Equipment Hours and Man-Hours to be associated to a Cost Item. This differs from the Actual Cost and Man-hours integration by allowing external systems to post actuals at any time without a request being initiated from Control first.
Cost Item (Generic) - Post (V0)	<p>This integration allows an external system to perform the following:</p> <ul style="list-style-type: none"> • Create and maintain the master list of cost items for a project, including the hierarchical structure. • Maintain Current Estimate (CE) values for cost items. • Maintain cost category breakdowns for CE. <p>NOTE: This integration will be deprecated in a future release and should not be used for new implementations.</p>
Cost Item (Generic) - Post (V1)	This is the most current option to create or update cost item attributes and current estimate cost.
Pay Items - Sync	This integration provides the list of, and information about, contractual pay items that have been defined within InEight Control.
Actual Quantities – Sync	This integration allows a delta value of quantities claimed against cost items in InEight, from the last time the integration was executed, to be provided to an external system such as an ERP or accounting system.
Push Billed Revenue – Sync	This integration allows the billed revenue that has been created from the last time the integration was executed, to be provided to an external system such as an ERP or accounting system. This includes information such as the pay item, project, billed revenue, cost category, billed quantity, and billing date.
Get Billed Revenue (Request) – Sync	This integration allows the billed revenue to be brought in from an external system such as an ERP. The Get Billed Revenue sends a date range from the last time the integration was executed, and it would be expected that the ERP sends back the information that occurred between the specified dates.
Get Billed Revenue (Response) – Sync	See Get Billed Revenue (Request).
Billed Revenue (Generic)	This integration is a publicly available API that can be used to provide billed revenue by cost category or billed quantity associated to a pay item and a cost item that is associated to that pay item. This differs from the Get Billed Revenue integration in that it allows external systems to post billed revenue at any time without a request first being initiated from Control.
Time Phased Forecast – Sync	This integration sends time phased forecast information to an ERP. This integration is initiated every time the Live Forecast integration is initiated. The information in the Time Phased Forecast integration includes forecast amounts by fiscal months, by cost category, and by cost item. It also includes information for forecast quantity and manhours by fiscal month, and by cost item.
Forecast Revenue – Sync	This integration sends forecasted revenue by pay item to an ERP. The integration is initiated every time the Forecast Revenue integration is initiated. A confirmation is required to be sent back from the ERP that the data was received and either processed successfully or failed on the ERP side.

Integration	Description
Time Phased Budget – Sync	This integration sends time phased budget information to an ERP. This integration is initiated every time the Budget integration is initiated. The information in the Time Phased Budget integration includes budget amounts by fiscal months, by cost category, or by cost item.
Sales Order Post	This integration allows sales order and sales order description to be brought in from an external system such as an ERP.
Multiple Project Actuals (Generic)	This integration allows actual cost, quantity, equipment hours and man-hours to be associated to a cost item based on the joining criteria of WBS phase code or CBS position for up to 15 different projects.
Cost Item (Generic) - Get	This integration allows a customer to retrieve cost item attributes for a project through the location field.
Budget (Generic) - Get	This integration allows a customer to retrieve from the InEight cloud platform current estimate, current budget, and original budget information by cost item and at the cost category level for a project through the location field.
Live Forecast (Generic) - Get	This integration allows a customer to retrieve from the InEight cloud platform live forecast information by cost item and to the cost category level for a project through the location field.
Time Phased Budget (Generic) - Get	This integration allows a customer to retrieve from the InEight cloud platform the time phased budget information for a project.
Time Phased Forecast (Generic) - Get	This integration allows a customer to retrieve from the InEight cloud platform the time phased forecast information for a project.
Live Forecast (Generic) - Post	This integration allows a customer to update InEight Control from their external ERP the live forecast for a cost item for live forecast cost, manhours, and notes.
Time phase Forecast (Generic) - Post	This integration allows a customer to update InEight Control from their external ERP the time phased forecast for a cost item for live forecast cost, manhours, and notes.
Change order (Generic) - Get	This integration allows a customer to retrieve information about contract adjustments, budget moves from the InEight cloud platform.
Actuals (Generic) – Get	This integration allows a customer to retrieve information about actuals (cost, manhours, quantity, equipment hours) from InEight cloud platform.

Triggering Control Integrations

You can manually initiate most of the integrations included in this document within the InEight Control application. To initiate a Control integration, go to **Workspaces**, select Actions > **Sync**, and then select the integration you want to initiate from the list.



Unit of Measure

All UOM references use the code shown in Master data libraries > Unit of measure > SKF ID field. If the SKF ID field is not populated in the UI, a message shows that the unit of measure is not valid.

Relationships and Dependencies

Cost Breakdown Structure (CBS), Budget, and Forecast

The Cost Breakdown Structure integration provides the foundation for how cost is managed within the InEight Control application. The data transmitted represents the hierarchy of cost items and their details about how cost will be captured.

This integration is typically used at the start of a new project in InEight to communicate the structure to external accounting or ERP systems, and then is used periodically, on demand by users of Control, to keep the cost structure synchronized between Control and external systems. For instance, when a user initiates either the Budget or Forecast integrations, the Cost Breakdown Structure integration is sent first, and confirmation must be received before either of the integrations is sent. This ensures that all cost items within the Budget and Forecast integrations are known by the external system prior to the transmission of their data.

Cost Category Structure

Within InEight, each cost item contains a hierarchy of cost categories that provide the detailed breakdown of the Original Budget (OB), Current Budget (CB) and Current Estimate (CE) totals. As of this release, there are four possible levels to the cost category structure with each branch of the structure using different numbers of the levels, as shown in the following example.

- Labor
 - Labor Base
 - Labor Burden
 - Labor Fringes
 - Travel
 - Premium
 - Undefined Labor Fringes
 - Labor Insurance
 - Workers Compensation
 - Undefined Labor Insurance
 - Undefined Labor

In the example, note that all levels have an Undefined... category. When a dollar value is not placed at the lowest level, or terminal (level), cost category it is automatically assigned to the Undefined... category at the next level down. For example, \$5,000 in budget placed on Travel would remain on Travel because it is a terminal cost category. However, \$3,000 in budget placed on Labor Insurance would be assigned to Undefined Labor Insurance because Labor Insurance is not a terminal cost category. Just as a budget value of \$17,500 placed directly on Labor would be assigned to Undefined Labor for the same reason.

When cost category values are reported through an integration, all cost categories that contain a value are reported, including the summary values at all parent levels. The following JSON shows how the example values for labor from above would be reported within any Original Budget portion of an integration.

```

"OriginalBudgetQuantity": 654.000000000000,
"OriginalBudgetUnitOfMeasure": "MWK",
"OriginalBudgetManHours": 0.000000000000,
"OriginalBudgetTotalCost": 201000.000000000000, (*Note that this value reflects all
Cost Categories, not just the Labor example.)
"OriginalBudgetCostCategory": [
  {
    "Name": "Labor",
    "Cost": 25500.000000000000, (*Total of all children of Labor)
    "IsTerminalCostCategory": false
  },{
    "Name": "Labor Burden",
    "Cost": 8000.000000000000, (*Total of all children of Labor Burden)
    "IsTerminalCostCategory": false
  },{
    "Name": "Labor Fringes",
    "Cost": 5000.000000000000, (*Total of all children of Labor Fringes)
    "IsTerminalCostCategory": false
  },{
    "Name": "Travel",
    "Cost": 5000.000000000000, (*Terminal Cost Category)
    "IsTerminalCostCategory": true
  },{
    "Name": "Labor Insurance",
    "Cost": 3000.000000000000, (*Total of all children of Labor Insurance)
    "IsTerminalCostCategory": false
  },{
    "Name": "Undefined Labor Insurance",
    "Cost": 3000.000000000000, (*Terminal Cost Category)
    "IsTerminalCostCategory": true
  },{
    "Name": "Undefined Labor",
    "Cost": 17500.000000000000, (*Terminal Cost Category)
    "IsTerminalCostCategory": true
  },{

```

NOTE:

Labor Base is not reported in the JSON because the example values did not include a budget for that cost category, and therefore did not contain a value.

IsTerminalCostCategory

For customers with systems that do not support multiple hierarchy levels for cost categorization and need to capture information only at the terminal levels, the IsTerminalCostCategory field is included with each cost category record so that parent levels can be ignored.

Fixed Cost Category List

Cost categories are a fixed list of options and hierarchical structure that matches options available in InEight Estimate. At this time, both the list or the structure cannot be altered by customers. The full list of all cost categories and how they fit within the hierarchy is available in [Appendix A](#).

SourceSystemId

When sending updates for values within a cost category, use SourceSystemId to reference the cost category. Do not use the name of the cost category as it can be different than the SourceSystemId.

Actuals

The following preconditions need to be met before the Actuals integration can be used:

- The Project ID mentioned in the Actuals Request JSON sent from Control to the ERP needs to be present in the ERP system.
- The cost item and cost category details mentioned in the Actuals Response JSON sent from the ERP to Control needs to be present in Control. Notice the cost item and cost category shown in the example below (see [Cost Category Structure](#) for more information).

The screenshot shows the 'Control' interface with a sidebar menu on the left and a main content area. The sidebar lists tasks under 'CBS position' and 'Description', with '1.1.1.1.1.4.3 - ECM Project' selected. The main content area displays a table for '1.1.1.1.1.4.3 - ECM Project' with columns for 'Cost category', 'Current budget', 'Total cost (to date)', 'Current estimate', 'Live forecast', and 'Forecast releasing cost'.

Cost category	Current budget	Total cost (to date)	Current estimate	Live forecast	Forecast releasing cost
▼ Total	\$ 1,400,284.00	\$ 3,148,046.47	\$ 1,400,284.00	\$ 3,148,046.47	\$ 0.00
▲ Labor	\$ 1,400,284.00	\$ 733,038.49	\$ 1,400,284.00	\$ 733,038.49	\$ 0.00
▲ Construction Equipment	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
▲ PDM Rented Equipment	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
▲ Supplies	\$ 0.00	\$ 1,931,014.91	\$ 0.00	\$ 1,931,014.91	\$ 0.00
▲ Materials	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

Integration Configuration

Integrations that involve passing data from the InEight cloud platform to an external system are typically triggered by a user action while they are in an application, which then causes a web service to collect and send data to a preconfigured destination using stored credentials. All configurations are managed through the menu item Suite administration > **Application integrations**.

On the Application integrations page, the **Other** tab shows a list of all the currently configured web service integrations.

Entity ↑	URI	Username
<input type="checkbox"/> Applog: Log Level	Debug	
<input type="checkbox"/> Contract: Accrual request	https://in8-mes-functionapp.azurewebsites.net/api/SendAccrualRe...	
<input type="checkbox"/> Contract: Ariba client	SB6000	saAdf
<input type="checkbox"/> Contract: Ariba realmVer	vrealm_3954	
<input type="checkbox"/> Contract: Ariba template code	CW2223662	
<input type="checkbox"/> Contract: Ariba webjumper	https://kiewit-t.sourcing.ariba.com/ad/viewDocument?ID=	
<input type="checkbox"/> Contract: Post payment request	https://in8-mes-functionapp.azurewebsites.net/api/SendPaymentR...	Build: Release Core.Main.v18.4.20180906.02
<input type="checkbox"/> Contract: Post purchase order	https://in8-mes-functionapp.azurewebsites.net/api/SendPurchaseO...	https://in8-mes-functionapp.azurewebsites.net/api/
<input type="checkbox"/> Contract: Post to Ariba	https://s1-integration.ariba.com/Sourcing/soap/kiewit-T/ContractW...	Webservice_Test
<input type="checkbox"/> Contract: Receipt request	https://in8-mes-functionapp.azurewebsites.net/api/SendGoodsRec...	
<input type="checkbox"/> Contract: Tax request	https://in8-mes-functionapp.azurewebsites.net/api/SendContractT...	
<input type="checkbox"/> Control: Actual Quantity	https://in8-mes-functionapp.azurewebsites.net/api/SyncActualQty?...	
<input type="checkbox"/> Control: Budget	https://in8-mes-functionapp.azurewebsites.net/api/SyncBudget?co...	
<input type="checkbox"/> Control: Cost Breakdown Structure	https://in8-mes-functionapp.azurewebsites.net/api/SyncCBS?code...	
<input type="checkbox"/> Control: Forecast	https://in8-mes-functionapp.azurewebsites.net/api/SyncForecast?c...	
<input type="checkbox"/> Control: Pay item	https://in8-mes-functionapp.azurewebsites.net/api/SyncPayItem?c...	
<input type="checkbox"/> Control: Request Cost and Man Hours	https://in8-mes-functionapp.azurewebsites.net/api/SyncActualMhC...	
<input type="checkbox"/> Core: InEight Document	https://kiewit.teambinder.com	CCMint
<input type="checkbox"/> Plan: Post daily plans	https://in8-mes-functionapp.azurewebsites.net/api/SyncDailyplanT...	

The configuration information is entered via the InEight cloud platform UI. From the Application integrations page, add an entity to show the configuration options.

Configuration Option	Description	Example	Req.
Entity	A list of integrations that have a web service option are contained in this field. The name of the Entity to select when configuring an integration is provided within the overview table of each integration specification.	Control: Actual quantity	Yes
URI	Full endpoint URL destination path for the external system where data is sent.	<a href="https://<address>/controlactualquantity">https://<address>/controlactualquantity	Yes

Configuration Option	Description	Example	Req.
Username	Security credential for username expected by the receiving system.	InEightControlActualsIntegrations	No
Password	Security credential for password expected by the receiving system.	Password123	No

Verifying Integration Events in InEight Control

In the Control application, you can view the status of any integration or synchronization event that was initiated through the Actions menu in the UI.

To view integration events and the statuses, go to the **Workspaces** module in Control, click the **AUDIT LOG** tab, and then in the Actions panel select **Integration**.

The screenshot shows the InEight Control interface for '103361 (The Bentway Project)'. The 'Audit Log' tab is selected, and the 'Integration' option is highlighted in the left-hand 'Actions' menu. The main table displays the following data:

Audit ID	Interface	Status	Processing details	Start	Finish	User name	Log Handle
63696	ActualQty	Succeeded	4 of 4	05/31/2019 04:36 AM	05/31/2019 04:38 AM	Radhika Kurup	d4ec654a-2a97-4f51-a...
63695	LiveForecast	Succeeded	4 of 4	05/31/2019 04:36 AM	05/31/2019 04:37 AM	Radhika Kurup	e9591c4b-1ff3-41c6-b...
63694	Budget	Succeeded	4 of 4	05/31/2019 04:36 AM	05/31/2019 04:37 AM	Radhika Kurup	ceeee155-cadb-41bf-9...
63693	CBS	Succeeded	4 of 4	05/31/2019 04:36 AM	05/31/2019 04:37 AM	Radhika Kurup	0f6d9f14-c911-43f8-a...
63686	ActualQty	Succeeded	4 of 4	05/31/2019 04:29 AM	05/31/2019 04:33 AM	Radhika Kurup	c9c3b1d1-efd9-4c30-9...
63685	LiveForecast	Succeeded	4 of 4	05/31/2019 04:29 AM	05/31/2019 04:33 AM	Radhika Kurup	76261397-945d-4103-...
63684	Budget	Succeeded	4 of 4	05/31/2019 04:29 AM	05/31/2019 04:32 AM	Radhika Kurup	d359f27e-f804-4630-8...
63683	CBS	Succeeded	4 of 4	05/31/2019 04:29 AM	05/31/2019 04:32 AM	Radhika Kurup	611e7ab4-3d65-446a-...
63602	ActualQty	Succeeded	4 of 4	05/28/2019 10:38 AM	05/28/2019 10:40 AM	Kamal Venkatesh	cd8ebba9-b9f8-44db-9...
63601	LiveForecast	Succeeded	4 of 4	05/28/2019 10:38 AM	05/28/2019 10:39 AM	Kamal Venkatesh	d615a02e-c83f-4cd2-9...
63600	Budget	Succeeded	4 of 4	05/28/2019 10:38 AM	05/28/2019 10:39 AM	Kamal Venkatesh	bdc81bbc-dbc7-422e-...
63599	CBS	Succeeded	4 of 4	05/28/2019 10:38 AM	05/28/2019 10:39 AM	Kamal Venkatesh	f2a9f3f6-d856-4cba-b...
63598	CBS	Suspended	Suspended at 3	05/28/2019 10:38 AM	05/28/2019 10:38 AM	Kamal Venkatesh	63de1b67-7aee-4e77-...
63536	CBS	Failed	Failed at 2	05/21/2019 03:49 AM	05/21/2019 03:49 AM	paramita maity	e010b5d5-2a06-42c7-...

Cost Item Characteristics

InEight Control allows users to add custom attributes to cost items using the fields referred to as Characteristics. These fields by default are labeled CBS tag 1 through CBS tag 20 and CBS user defined 1 through CBS user defined 10, which can be customized along with the value contained within the field.

In the integrations, the Characteristic fields are exposed using the label Characteristic[n] rather than their default labels or the customized label that is shown in the UI. Although this could cause some initial confusion for a user who is looking at the output of an integration and is unable to match integration field names to the names in the UI, it should avoid issues with system-to-system integrations related to field relabeling.

However, due to the need to retain backward compatibility with other systems, there are notable exceptions regarding what data is exposed in Characteristic fields. For instance, data from the Hide in Plan and Progress field in the Control UI is exposed in Characteristic 30. This is due to a prior practice of InEight Estimate customers placing a flag that was similar in purpose in a CBS User Defined Field (UDF) that is mapped to Characteristic 30 when importing data from Estimate to Control. These exceptions are noted in the integrations specification where they are applicable.

InEight Estimate to Control Characteristic Default Map

For customers that use the InEight Estimate product it is common practice to import a final project estimate from Estimate into Control at the start of the project. When this occurs, data from CBS Tag and User Defined Fields (UDF) is mapped to Characteristic fields in Control during the import process. The following table shows the current default mapping for the import.

Estimate CBS Field	Default Control Field Name	Outbound Control Characteristic Field
Tag 1	CBS tag 1	Characteristic 1
Tag 2	CBS tag 2	Characteristic 2
Tag 3	CBS tag 3	Characteristic 3
Tag 4	CBS tag 4	Characteristic 4
Tag 5	CBS tag 5	Characteristic 5
Tag 6	CBS tag 6	Characteristic 6
Tag 7	CBS tag 7	Characteristic 7
Tag 8	CBS tag 8	Characteristic 8
Tag 9	CBS tag 9	Characteristic 9
Tag 10	CBS tag 10	Characteristic 10
Tag 11	CBS tag 11	Characteristic 11
Tag 12	CBS tag 12	Characteristic 31 (Characteristic 12 is reserved)
Tag 13	CBS tag 13	Characteristic 13
Tag 14	CBS tag 14	Characteristic 14
Tag 15	CBS tag 15	Characteristic 15
Tag 16	CBS tag 16	Characteristic 16
Tag 17	CBS tag 17	Characteristic 17
Tag 18	CBS tag 18	Characteristic 18
Tag 19	CBS tag 19	Characteristic 19

Estimate CBS Field	Default Control Field Name	Outbound Control Characteristic Field
Tag 20	CBS tag 20	Characteristic 20
User Defined 1	CBS user defined 1	Characteristic 21
User Defined 2	CBS user defined 2	Characteristic 22
User Defined 3	CBS user defined 3	Characteristic 23
User Defined 4	CBS user defined 4	Characteristic 24
User Defined 5	CBS user defined 5	Characteristic 25
User Defined 6	CBS user defined 6	Characteristic 26
User Defined 7	CBS user defined 7	Characteristic 27
User Defined 8	CBS user defined 8	Characteristic 28
User Defined 9	CBS user defined 9	Characteristic 29
User Defined 10	CBS user defined 10	Characteristic 32 (Characteristic 30 is reserved)

Cost Breakdown Structure - Sync

Direction	From InEight Control to External (ERP or Finance).	
Frequency	Preceding all Budget and Forecast integrations.	
Trigger Methods	Manually triggered by user within Control UI.	
Average Payload Size	The potential is hundreds to thousands of records. Details for all cost items within a project are sent.	
APIM Name	Not available through APIM.	
InEight Control	Starting Version	18.1
	Ending Version	
Configuration Entity Name	Control: Cost Breakdown Structure	

Fields

Depth	Name	Type	Precision	Parent
1	CostBreakdownStructure	Array		
2	CostItem	Array		CostBreakdownStructure
3	ProjectId	String	8	CostItem
3	PhaseCode ¹	String	50	CostItem
3	WBSDescription	String	250	CostItem
3	CostItemId	String	10	CostItem
3	AllowAsBuilt	String	50	CostItem
3	ParentCostItemReference	String	10	CostItem
3	ChildCostItemReferences	Array	NA	CostItem
4	CostItemId	String	10	ChildCostItemReference
3	PreviousSiblingReference	String	10	CostItem
3	NextSiblingReference	String	10	CostItem
3	Level	String	100	CostItem
3	Start ²	String	25	CostItem
3	Finish ²	String	25	CostItem
3	ActualStart ²	String	25	CostItem
3	ActualFinish ²	String	25	CostItem
3	EarlyStart ²	String	25	CostItem
3	EarlyFinish ²	String	25	CostItem

Depth	Name	Type	Precision	Parent
3	LateStart ²	String	25	CostItem
3	LateFinish ²	String	25	CostItem
3	AccountCode	String	15	CostItem
3	AccountDescription	String	250	CostItem
3	Characteristic1	String	250	CostItem
3	Characteristic2	String	250	CostItem
3	Characteristic3	String	250	CostItem
3	Characteristic4	String	250	CostItem
3	Characteristic5	String	250	CostItem
3	Characteristic6	String	250	CostItem
3	Characteristic7	String	250	CostItem
3	Characteristic8	String	250	CostItem
3	Characteristic9	String	250	CostItem
3	Characteristic10	String	250	CostItem
3	Characteristic11	String	250	CostItem
3	Characteristic12	String	250	CostItem
3	Characteristic13	String	250	CostItem
3	Characteristic14	String	250	CostItem
3	Characteristic15	String	250	CostItem
3	Characteristic16	String	250	CostItem
3	Characteristic17	String	250	CostItem
3	Characteristic18	String	250	CostItem
3	Characteristic19	String	250	CostItem
3	Characteristic20	String	250	CostItem
3	Characteristic21	String	250	CostItem
3	Characteristic22	String	250	CostItem
3	Characteristic23	String	250	CostItem
3	Characteristic24	String	250	CostItem
3	Characteristic25	String	250	CostItem
3	Characteristic26	String	250	CostItem
3	Characteristic27	String	250	CostItem
3	Characteristic28	String	250	CostItem
3	Characteristic29	String	250	CostItem
3	Characteristic30	String	250	CostItem

Depth	Name	Type	Precision	Parent
3	Characteristic31	String	250	CostItem
3	Characteristic32	String	250	CostItem
3	Suspend	Boolean	NA	CostItem
3	PayItemNumber	String	100	CostItem
3	PayItemDescription	String	500	CostItem
3	PayItemSourceSystemId	String	150	CostItem
3	IssueName	String	500	CostItem
3	IssueID	String	100	CostItem
3	ChangeID	Number	Integer	CostItem
3	DirectPayItemNumberAssigned	String	100	CostItem
3	DirectPayItemSourceSystemIDAssigned	String	150	CostItem
3	Segment1	String	50	CostItem
3	Segment2	String	50	CostItem
3	Segment3	String	50	CostItem
3	Segment4	String	50	CostItem
2	ErrorHandlingToken	String	50	CostItem

1 – Natural Key field.

2 – The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000

Field Descriptions

NOTE:

Characteristics are used to provide customizable free-text fields for cost items. In current releases, the names of these fields in the UI appear different than they do in integrations. The description for each characteristic field in this document shows the name of the field as it appears in the UI.

Name	Description	Example
ProjectId	Unique identifier for the project. The Project Display as shown in the UI.	103466
PhaseCode	Unique identifier for the cost item.	1000
WBSDescription	User-defined description of the cost item.	Financial Results
CostItemId	Internal ID with primary key constraint.	92122
AllowAsBuilt	Defines whether the system allows for tracking of cost, quantity, man-hours, and equipment hours.	None
ParentCostItemReference	Unique identifier of the parent cost item.	92127
ChildCostItemReferences	Array representing all the children of the current cost item.	

Name	Description	Example
CostItemId	Unique identifier of the child cost item. This field is repeated for all child cost item records.	93231
PreviousSiblingReference	Gives the previous sibling CostItemId.	92217
NextSiblingReference	Gives the next sibling CostItemId.	92222
Level	CBS position of the cost item.	1.1.1.3.3
Start	Start date of the cost item	10/31/2020
Finish	Finish date of the cost item	10/31/2020
ActualStart	Actual start date of the cost item	10/31/2020
ActualFinish	Actual finish date of the cost item	10/31/2020
EarlyStart	Early start date of the cost item	10/31/2020
EarlyFinish	Early finish date of the cost item	10/31/2020
LateStart	Late start date of the cost item	10/31/2020
LateFinish	Late finish date of the cost item	10/31/2020
AccountCode	Unique identifier of the account code assigned to the cost item.	10.10.0.1
AccountDescription	Current description of the account code.	Bonds
Characteristic1	Content from CBS tag 1.	Any text
Characteristic2	Content from CBS tag 2.	Any text
Characteristic3	Content from CBS tag 3.	Any text
Characteristic4	Content from CBS tag 4.	Any text
Characteristic5	Content from CBS tag 5.	Any text
Characteristic6	Content from CBS tag 6.	Any text
Characteristic7	Content from CBS tag 7.	Any text
Characteristic8	Content from CBS tag 8.	Any text
Characteristic9	Content from CBS tag 9.	High
Characteristic10	Content from CBS tag 10.	Any text
Characteristic11	Content from CBS tag 11.	Executed
Characteristic12	Content from As-Built Lock field.	Locked
Characteristic13	Content from CBS tag 13.	Any text
Characteristic14	Content from CBS tag 14.	Any text
Characteristic15	Content from CBS tag 15.	Any text
Characteristic16	Content from CBS tag 16.	Any text
Characteristic17	Content from CBS tag 17.	Any text
Characteristic18	Content from CBS tag 18.	Any text

Name	Description	Example
Characteristic19	Content from CBS tag 19.	Any text
Characteristic20	Content from CBS tag 20.	Compare
Characteristic21	Content from CBS user defined 1.	Any text
Characteristic22	Content from CBS user defined 2.	Any text
Characteristic23	Content from CBS user defined 3.	Any text
Characteristic24	Content from CBS user defined 4.	Any text
Characteristic25	Content from CBS user defined 5.	Any text
Characteristic26	Content from CBS user defined 6.	Any text
Characteristic27	Content from CBS user defined 7.	Any text
Characteristic28	Content from CBS user defined 8.	Any text
Characteristic29	Content from CBS user defined 9.	Any text
Characteristic30	Content from Hide in Plan and Progress field.	False
Characteristic31	Content from CBS tag 12.	Any text
Characteristic32	Content from CBS user defined 10.	Any text
Suspend	Determines when the cost item is suspended (true). If suspended, the cost item is removed from impacting financials and causes the system to zero out cost, quantity, man-hours, and disallows tracking.	False
PayItemNumber	Pay item number entered in the UI by a user.	
PayItemDescription	Pay item description entered in the UI by a user.	
PayItemSourceSystemId	Pay item source system ID that is generated, which cannot be changed by a user.	
IssueName	Name of the issue shown in InEight Change.	Issue 1
IssueID	ID of the issue shown in InEight Change.	1
ChangeID	ID of the issue generated in InEight Change.	1
DirectPayitemNumberAssigned	Pay item number where there is a direct assignment of a pay item.	3
DirectPayitemSourceSystemIDAssigned	Pay item source system ID where there is a direct assignment of a pay item.	13239.3
Segment1	Configurable based on the organization setting of budget segment to what this field represents.	varies
Segment2	Configurable based on the organization setting of budget segment to what this field represents.	varies
Segment3	Configurable based on the organization setting of budget segment to what this field represents.	varies
Segment4	Configurable based on the organization setting of budget segment to what this field represents.	varies

Name	Description	Example
ErrorHandlingtoken	<p>The value sent in this field corresponds to the LogToken field in the confirmation message.</p> <p>It is important to ensure the LogToken sent in this field is matched correctly to the request that is being confirmed. InEight uses the log token in the confirmation to flag data as having been synchronized with the external system.</p>	8f46cc1e-a42a-423e-a1b8-6d63dfd493a7

Sample JSON

```

{
  "CostBreakdownStructure": {
    "CostItem": [
      {
        "ProjectId": "190000",
        "PhaseCode": "1000",
        "WBSDescription": "Unclassified Excavation (Has Plug Values) updated",
        "CostItemId": 1612700,
        "AllowAsBuilt": "All",
        "ParentCostItemReference": "",
        "ChildCostItemReferences": [],
        "PreviousSiblingReference": "",
        "NextSiblingReference": 1612703,
        "Level": "1",
        "Start": "",
        "Finish": "",
        "ActualStart": "",
        "ActualFinish": "",
        "EarlyStart": "",
        "EarlyFinish": "",
        "LateStart": "",
        "LateFinish": "",
        "AccountCode": "00",
        "AccountDescription": "Overhead-01",
        "Characteristic1": "Estimator 1",
        "Characteristic2": "Roadway",
        "Characteristic3": "",
        "Characteristic4": "",
        "Characteristic5": "",
        "Characteristic6": "",
        "Characteristic7": "",
        "Characteristic8": "",
        "Characteristic9": "",
        "Characteristic10": "",
        "Characteristic11": "",
        "Characteristic12": "",
        "Characteristic13": "",
        "Characteristic14": "",
        "Characteristic15": "",
        "Characteristic16": "",
        "Characteristic17": "",
        "Characteristic18": "",
        "Characteristic19": ""
      }
    ]
  }
}

```

```

    "Characteristic20": "",
    "Characteristic21": "",
    "Characteristic22": "",
    "Characteristic23": "",
    "Characteristic24": "",
    "Characteristic25": "",
    "Characteristic26": "",
    "Characteristic27": "",
    "Characteristic28": "",
    "Characteristic29": "",
    "Characteristic30": "False",
    "Characteristic31": "",
    "Characteristic32": "",
    "Suspend": false,
    "PayItemNumber": "",
    "PayItemDescription": "",
    "PayItemSourceSystemId": "",
    "IssueName": "",
    "IssueID": "",
    "ChangeID": 0,
    "DirectPayitemNumberAssigned": "",
    "DirectPayitemSourceSystemIDAssigned": "",
    "Segment1": "190000",
    "Segment2": "",
    "Segment3": "",
    "Segment4": "1000"
  },
  {
    "ProjectId": "190000",
    "PhaseCode": "1001",
    "WBSDescription": "Aggregate Base",
    "CostItemId": 1612703,
    "AllowAsBuilt": "None",
    "ParentCostItemReference": "",
    "ChildCostItemReferences": [
      {
        "CostItemId": 1612704
      },
      {
        "CostItemId": 1612705
      },
      {
        "CostItemId": 1612706
      }
    ],
    "PreviousSiblingReference": 1612700,
    "NextSiblingReference": 1612709,
    "Level": "2",
    "Start": "",
    "Finish": "",
    "ActualStart": "",
    "ActualFinish": "",
    "EarlyStart": "",
    "EarlyFinish": "",
    "LateStart": "",
    "LateFinish": "",
    "AccountCode": "",

```

```

    "AccountDescription": "",
    "Characteristic1": "Estimator 1",
    "Characteristic2": "Roadway",
    "Characteristic3": "",
    "Characteristic4": "",
    "Characteristic5": "",
    "Characteristic6": "",
    "Characteristic7": "",
    "Characteristic8": "",
    "Characteristic9": "",
    "Characteristic10": "",
    "Characteristic11": "",
    "Characteristic12": "",
    "Characteristic13": "",
    "Characteristic14": "",
    "Characteristic15": "",
    "Characteristic16": "",
    "Characteristic17": "",
    "Characteristic18": "",
    "Characteristic19": "",
    "Characteristic20": "",
    "Characteristic21": "",
    "Characteristic22": "",
    "Characteristic23": "",
    "Characteristic24": "",
    "Characteristic25": "",
    "Characteristic26": "",
    "Characteristic27": "",
    "Characteristic28": "",
    "Characteristic29": "",
    "Characteristic30": "False",
    "Characteristic31": "",
    "Characteristic32": "",
    "Suspend": false,
    "PayItemNumber": "",
    "PayItemDescription": "",
    "PayItemSourceSystemId": "",
    "IssueName": "",
    "IssueID": "",
    "ChangeID": 0,
    "DirectPayitemNumberAssigned": "",
    "DirectPayitemSourceSystemIDAssigned": "",
    "Segment1": "190000",
    "Segment2": "",
    "Segment3": "",
    "Segment4": "1001"
  },
  {
    "ProjectId": "190000",
    "PhaseCode": "1002",
    "WBSDescription": "Furnish & Haul Base Material",
    "CostItemId": 1612704,
    "AllowAsBuilt": "All",
    "ParentCostItemReference": 1612703,
    "ChildCostItemReferences": [],
    "PreviousSiblingReference": "",
    "NextSiblingReference": 1612705,
  }
}

```

```

"Level": "2.1",
"Start": "",
"Finish": "",
"ActualStart": "",
"ActualFinish": "",
"EarlyStart": "",
"EarlyFinish": "",
"LateStart": "",
"LateFinish": "",
"AccountCode": "1120.100",
"AccountDescription": "1120",
"Characteristic1": "Estimator 1",
"Characteristic2": "Roadway",
"Characteristic3": "",
"Characteristic4": "",
"Characteristic5": "",
"Characteristic6": "",
"Characteristic7": "",
"Characteristic8": "",
"Characteristic9": "",
"Characteristic10": "",
"Characteristic11": "",
"Characteristic12": "",
"Characteristic13": "",
"Characteristic14": "",
"Characteristic15": "",
"Characteristic16": "",
"Characteristic17": "",
"Characteristic18": "",
"Characteristic19": "",
"Characteristic20": "",
"Characteristic21": "",
"Characteristic22": "",
"Characteristic23": "",
"Characteristic24": "",
"Characteristic25": "",
"Characteristic26": "",
"Characteristic27": "",
"Characteristic28": "",
"Characteristic29": "",
"Characteristic30": "False",
"Characteristic31": "",
"Characteristic32": "",
"Suspend": false,
"PayItemNumber": "07.029",
"PayItemDescription": "Temporary Drainage",
"PayItemSourceSystemId": "c2665b08aed84762bbbbe09c7ea36eb3",
"IssueName": "",
"IssueID": "",
"ChangeID": 0,
"DirectPayitemNumberAssigned": "07.029",
"DirectPayitemSourceSystemIDAssigned":
"c2665b08aed84762bbbbe09c7ea36eb3",
"Segment1": "190000",
"Segment2": "",
"Segment3": "",
"Segment4": "1002"

```

```
    }  
  ],  
  "Errorhandlingtoken": "c3520c1f-0a1c-4c84-9d05-9fe8ee910fca"  
}
```

Budget - Sync

NOTE:

Original Budget and Current Budget are the same when the project is initially imported during integration.

Direction	From InEight Control to External (ERP or Finance).	
Frequency	On-demand from users of Control. Most uses will be based on the financial periods of the customer.	
Trigger Methods	Manually triggered by user within Control UI.	
Average Payload Size	Potentially hundreds to thousands of records. Details for all cost items within a project are sent, which can also contain sub-records.	
APIM Name	Not available through APIM.	
InEight Control	Starting Version	18.1
	Ending Version	
Configuration Entity Name	Control: Budget	

Fields

Depth	Name	Type	Precision ¹	Parent
1	data	Array	NA	
2	OriginalBudgetQuantity	Number	22,11	CostItem
2	OriginalBudgetUnitOfMeasure	String	50	CostItem
2	OriginalBudgetManHours	Number	22,11	CostItem
2	OriginalBudgetTotalCost	Number	22,11	CostItem
2	OriginalBudgetCostCategory	Array	NA	CostItem
3	Name	String	50	OriginalBudgetCostCategory
3	Cost	Number	22,11	OriginalBudgetCostCategory
3	IsTerminalCostCategory	Boolean	NA	OriginalBudgetCostCategory
2	CurrentBudgetQuantity	Number	22,11	CostItem
2	CurrentBudgetUnitOfMeasure	String	50	CostItem
2	CurrentBudgetManHours	Number	22,11	CostItem
2	CurrentBudgetTotalCost	Number	22,11	CostItem
2	CurrentBudgetCostCategory	Array	NA	CostItem
3	Name	String	50	CurrentBudgetCostCategory
3	Cost	Number	22,11	CurrentBudgetCostCategory

Depth	Name	Type	Precision ¹	Parent
3	IsTerminalCostCategory	Boolean	NA	CurrentBudgetCostCategory
2	CurrentEstimateQuantity	Number	22,11	CostItem
2	CurrentEstimateUnitOfMeasure	String	50	CostItem
2	CurrentEstimateManHours	Number	22,11	CostItem
2	CurrentEstimateTotalCost	Number	22,11	CostItem
2	CurrentEstimateCostCategory	Array	NA	CostItem
3	Name	String	50	CurrentEstimateCostCategory
3	Cost	Number	22,11	CurrentEstimateCostCategory
3	IsTerminalCostCategory	Boolean	NA	CurrentEstimateCostCategory
2	ProjectId ²	String	50	CostItem
2	PhaseCode ²	String	50	CostItem
2	IsTerminal	Boolean	NA	CostItem
2	CBSPosition	String	100	CostItem
2	IsActive	Boolean	NA	CostItem
2	Suspend	Boolean	NA	CostItem
2	IsBudgetLocked	Boolean	NA	CostItem
2	LogToken	String	50	CostItem

1 – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 – Natural Key field.

Field Descriptions

Name	Description	Example
OriginalBudgetQuantity	Sum of Original Budget quantity for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	25.000000000000
OriginalBudgetUnitOfMeasure	Original Budget unit of measure for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	Ton
OriginalBudgetManHours	Sum of Original Budget man-hours for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	100.000000000000

Name	Description	Example
OriginalBudgetTotalCost	Sum of Original Budget total cost for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	500.0000000000
OriginalBudgetCostCategory	Array header for the cost category breakdown of the OriginalBudgetTotalCost. This section is repeated for each phase code (cost item) contained in the integration.	
Name	Source system ID of the cost category. This field is repeated for each cost category that carries any portion of the Original Budget total cost. (See Cost Category Structure and Appendix A for more information.)	Labor
IsTerminalCostCategory	Determines if the cost category Name represents a terminal item within the cost category hierarchical structure. (See Cost Category Structure for more information.)	false
CurrentBudgetQuantity	Sum of Current Budget quantity for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	23456.0000000000
CurrentBudgetUnitOfMeasure	Current Budget unit of measure for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	CY
CurrentBudgetManHours	Sum of Current Budget man-hours for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	0.0000000000
CurrentBudgetTotalCost	Sum of Current Budget total cost for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	75000.0000000000
CurrentBudgetCostCategory	Array header for the cost category breakdown of the CurrentBudgetTotalCost. This section is repeated for each phase code (cost item) contained in the integration.	
Name	Source system ID of the cost category. This field is repeated for each cost category that carries any portion of the Current Budget total cost. (See Cost Category Structure and Appendix A for more information.)	Undefined Labor
Cost	Amount of the Current Budget total cost carried by the cost category Name field. (See Cost Category Structure for more information.)	5000.0000000000
IsTerminalCostCategory	Determines if the cost category name represents a terminal item within the cost category hierarchical structure. (See Cost Category Structure for more information.)	true

Name	Description	Example
CurrentEstimateQuantity	Sum of Current Estimate quantity for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	700.000000000000
CurrentEstimateUnitOfMeasure	Current Estimate unit of measure for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	LF
CurrentEstimateManHours	Sum of Current Estimate man-hours for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	0.000000000000
CurrentEstimateTotalCost	Sum of Current Estimate total cost for the cost item represented by the PhaseCode field. This field is repeated for each phase code (cost item) contained in the integration.	25700.000000000000
CurrentEstimateCostCategory	Array header for the cost category breakdown of the CurrentEstimateTotalCost. This section is repeated for each phase code (cost item) contained in the integration.	
Name	Source system ID of the cost category. This field is repeated for each cost category that carries any portion of the Current Estimate total cost. (See Cost Category Structure and Appendix A for more information.)	Fees
Cost	Amount of the Current Estimate total cost carried by the cost category Name field. (See Cost Category Structure for more information.)	1000.000000000000
IsTerminalCostCategory	Determines if the cost category Name represents a terminal item within the cost category hierarchical structure. (See Cost Category Structure for more information.)	false
ProjectId	Identifies the project associated with budget data being requested by the ERP. The Project Display as shown in the UI, which unique to a project.	103466
PhaseCode	Phase code of the cost item (unique identifier) for each set of Original Budget, Current Budget and Current Estimate data.	1000
IsTerminal	Indicates if the cost item represented by phase code is at the terminal level of the cost item hierarchical structure.	True
CBSPosition	Position of the cost item in the CBS register.	1.1.1
IsActive	Sending a value of false in this field causes the record to be soft deleted from the InEight cloud platform. If a value is not provided, the default value true is used.	True

Name	Description	Example
Suspend	Determines when the cost item is suspended (<i>true</i>). If suspended, the cost item is removed from impacting financials and causes the system to zero out cost, quantity, man-hours, and disallows tracking.	False
IsBudgetLocked	Determines if the budget is locked.	True
LogToken	Unique identifier (GUID) that can be used when viewing or obtaining error records in InEight error logging for each integration request.	8f46cc1e-a42a-423e-a1b8-6d63dfd493a7

Sample JSON

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    "OriginalBudgetTotalCost": 58848251.15627942010,
    "OriginalBudgetCostCategory": [
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        "Cost": 746629.92000243900,
        "IsTerminalCostCategory": false
      }, {
        "Name": "Fees",
        "Cost": 1440480.49509537730,
        "IsTerminalCostCategory": false
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        "Name": "OE Operation",
        "Cost": 491432.494800000000,
        "IsTerminalCostCategory": false
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        "Name": "OE Repair Parts",
        "Cost": 0.000000000000,
        "IsTerminalCostCategory": false
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        "Name": "Undefined Fringe1",
        "Cost": 0.000000000000,
        "IsTerminalCostCategory": false
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        "Name": "Total",
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        "IsTerminalCostCategory": false
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        "IsTerminalCostCategory": false
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        "IsTerminalCostCategory": false
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```

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```

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"Name": "Undefined Insurance2",
"Cost": 0.000000000000,
"IsTerminalCostCategory": false
}, {
"Name": "Labor Burden",
"Cost": 869504.57510000000,
"IsTerminalCostCategory": false
}, {
"Name": "FUTA",
"Cost": 0.000000000000,
"IsTerminalCostCategory": false
}, {
"Name": "Undefined Fees",
"Cost": 1240480.49509537730,
"IsTerminalCostCategory": false
}, {
"Name": "Subcontract Bond",
"Cost": 17154.00000000000,
"IsTerminalCostCategory": false
}, {
"Name": "Vacation",
"Cost": 0.000000000000,
"IsTerminalCostCategory": false
}, {
"Name": "Job Insurance",
"Cost": 200000.00000000000,
"IsTerminalCostCategory": false
}, {
"Name": "Labor Insurance",
"Cost": 149862.09170000000,
"IsTerminalCostCategory": false
}, {
"Name": "Workers Compensation",
"Cost": 0.000000000000,
"IsTerminalCostCategory": false
}, {
"Name": "OE Lube",
"Cost": 30434.32000000000,
"IsTerminalCostCategory": false
}, {
"Name": "OE Fuel",
"Cost": 447905.17480000000,

```

```

    "IsTerminalCostCategory": false
  }, {
    "Name": "OE Ownership",
    "Cost": 4105485.33415029900,
    "IsTerminalCostCategory": false
  }, {
    "Name": "Undefined Materials",
    "Cost": 289737.11000000000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "Undefined Owned Equipment",
    "Cost": 0.00000000000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "Undefined Total",
    "Cost": 0.00000000000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "Travel",
    "Cost": 0.00000000000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "Undefined Allowance",
    "Cost": 0.00000000000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "Savings",
    "Cost": 0.00000000000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "Custom Category1",
    "Cost": 4874176.86087250000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "Undefined Labor",
    "Cost": 491734.11683397680,
    "IsTerminalCostCategory": false
  }, {
    "Name": "Undefined Labor Taxes",
    "Cost": 34464.00000000000,
    "IsTerminalCostCategory": false
  }
  ],
  "ProjectId": "195555",
  "PhaseCode": "1000",
  "IsTerminal": false,
  "CBSPosition": "1",
  "IsActive": true,
  "Suspend": false,
  "IsBudgetLocked": true
  "LogToken": "8f46cc1e-a42a-423e-a1b8-6d63dfd493a7"
}
}

```

Forecast - Sync

Direction	From InEight Control to External (ERP or Finance).	
Frequency	On-demand from users of Control. Most uses will be based on the financial periods of the customer.	
Trigger Methods	Manually triggered by user within Control UI.	
Average Payload Size	Potentially hundreds to thousands of records. Details for all cost items within a project are sent, which can also contain sub-records.	
APIM Name	Not available through APIM.	
InEight Control	Starting Version	18.1
	Ending Version	
Configuration Entity Name	Control: Forecast	

Fields

Depth	Name	Type	Precision ¹	Parent
1	Suspend	Boolean	NA	
1	PlannedQuantity	Number	22,11	
1	UnitOfMeasure	String	25	
1	LaborHours	Number	22,11	
1	ProjectId	String	25	
1	PhaseCode	String	50	
1	ForecastMethod	String	50	
1	ForecastMethodChangeNotes	String	500	
1	IsActive	Boolean	NA	
1	ForecastCostCategory	Array	NA	
2	Name	String	50	ForecastCostCategory
2	Amount	String	22,11	ForecastCostCategory
2	IsTerminalCostCategory	Boolean	NA	ForecastCostCategory
1	AveragePerformanceSetting	String	100	
1	LogToken	String	50	

¹ – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
Suspend	Determines when the cost item is suspended (<i>true</i>). If suspended, the cost item is removed from impacting financials and causes the system to zero out cost, quantity, man-hours, and disallows tracking.	False
PlannedQuantity	Quantity that has been forecasted for the cost item for claiming in the Control or Plan applications.	2.00000
UnitOfMeasure	Unit of measure used for the Planned Quantity.	EA
LaborHours	Forecasted labor hours for the cost item.	5.60000
ProjectId	Unique identifier of the project that the forecast is being reported. The Project Display as shown in the UI.	405033
PhaseCode	Phase code of the cost item record.	5139
ForecastMethod	Method of forecasting selected for the cost item. Options are: <ul style="list-style-type: none"> • Rollup • Current Estimate • Manual (EAC) 	Current Estimate
ForecastMethodChangeNotes	Free-form text field a user to enter any additional information as needed.	187028
IsActive	Sending a value of false in this field causes the record to be soft deleted from the InEight cloud platform. If a value is not provided, the default value true is used.	True
ForecastCostCategory	Array header for all the cost category breakdowns for the total forecast of the cost item. Amount and Name fields are repeated for each cost category that contains some part of the total forecast.	
Name	Source system ID of the cost category. (Refer to and Appendix A for more details)	Undefined Labor
Amount	Amount of the forecast contained within the cost category name.	2234.57
IsTerminalCostCategory	Determines if the cost category is at the lowest level of the hierarchy. When summing the total values of cost categories, only includes values where this flag is set to true.	False
AveragePerformanceSetting	Provides additional information on the Average Performance date range.	To date
LogToken	Unique identifier (GUID) that can be used when viewing or obtaining error records in InEight error logging for each integration request.	702a27d8-b84a-4fac-a81d-01551ec46b7f"

Sample JSON

```
{
  "ForecastValues":
  {
    "Forecast": [
      {
        "Suspend": false,
        "PlannedQuantity": 1.00000,
        "UnitOfMeasure": "EA",
        "LaborHours": 0.00000,
        "ProjectId": "105035",
        "PhaseCode": "2000",
        "ForecastMethod": "Rollup",
        "ForecastMethodChangeNotes": "",
        "IsActive": true,
        "ForecastCostCategory": [],
        "AveragePerformanceSetting": ""
      }, {
        "Suspend": false,
        "PlannedQuantity": 1.00000,
        "UnitOfMeasure": "EA",
        "LaborHours": 0.00000,
        "ProjectId": "105035",
        "PhaseCode": "2146",
        "ForecastMethod": "Rollup",
        "ForecastMethodChangeNotes": "",
        "IsActive": true,
        "ForecastCostCategory": [],
        "AveragePerformanceSetting": ""
      }, {
        "Suspend": false,
        "PlannedQuantity": 1.00000,
        "UnitOfMeasure": "EA",
        "LaborHours": 5.60000,
        "ProjectId": "105035",
        "PhaseCode": "2149",
        "ForecastMethod": "Current Estimate",
        "ForecastMethodChangeNotes": "",
        "IsActive": true,
        "ForecastCostCategory": [
          {
            "Name": "Total",
            "Amount": 1919.075600000000,
            "IsTerminalCostCategory": false
          }, {
            "Name": "Labor",
            "Amount": 253.475600000000,
            "IsTerminalCostCategory": false
          }, {
            "Name": "Labor Base",
            "Amount": 126.000000000000,
            "IsTerminalCostCategory": true
          }, {
            "Name": "Labor Burden",
            "Amount": 63.075600000000,
            "IsTerminalCostCategory": false
          }, {

```

```

    "Name": "Labor Taxes",
    "Amount": 63.075600000000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "Undefined Labor Taxes",
    "Amount": 63.075600000000,
    "IsTerminalCostCategory": true
  }, {
    "Name": "Undefined Labor",
    "Amount": 64.400000000000,
    "IsTerminalCostCategory": true
  }, {
    "Name": "Owned Equipment",
    "Amount": 1665.600000000000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "OE Ownership",
    "Amount": 800.000000000000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "OE Depreciation",
    "Amount": 800.000000000000,
    "IsTerminalCostCategory": true
  }, {
    "Name": "OE Operation",
    "Amount": 865.600000000000,
    "IsTerminalCostCategory": false
  }, {
    "Name": "OE Repair Parts",
    "Amount": 240.000000000000,
    "IsTerminalCostCategory": true
  }, {
    "Name": "OE Repair Labor",
    "Amount": 0.000000000000,
    "IsTerminalCostCategory": true
  }, {
    "Name": "OE Fuel",
    "Amount": 438.000000000000,
    "IsTerminalCostCategory": true
  }, {
    "Name": "OE Tires & Tracks",
    "Amount": 52.000000000000,
    "IsTerminalCostCategory": true
  }, {
    "Name": "Undefined OE Operation",
    "Amount": 135.600000000000,
    "IsTerminalCostCategory": true
  }
],
"AveragePerformanceSetting": ""
}]
"LogToken": "702a27d8-b84a-4fac-a81d-01551ec46b7f"
}

```

Control Confirmation

This API is used to send confirmation of the receipt and successful processing of the Cost Breakdown Structure (CBS) data from InEight Control, which creates an asynchronous response to the CBS integration. If a response is not received, the changes made to the cost structure in Control are not released for use in the Control business process or for use by other applications. The API is also required to confirm receipt and successful processing for Budget, Forecast, and Quantity integrations when they are sent together from Control. Unless positive confirmation is received within each step of the synchronization process, further steps are not taken.

Direction	To the InEight cloud platform.	
Frequency	A message to this API is required each time a Cost Structure integration is received by the external system. A success message to this API is required for Cost Breakdown Structure, Budget, Forecast, Pay Items, Actual Quantities integrations, Push Billed Revenue, and Forecast Revenue.	
Trigger Methods	Determined by external system.	
Average Payload Size	Small payload with tens of records.	
APIM Name	Upsert Confirmation	
InEight Control	Starting Version	18.1
	Ending Version	

Fields

Depth	Name	Type	Precision	Parent	Req.
1	ProjectId	String	25		Yes
1	InterfaceType	String	50		Yes
1	Status	String	15		Yes
1	LogToken	String	50		Yes
1	Logger	Array	N/A		No
2	LogDate	Date/Time		Logger	No
2	LogLevel	String	20	Logger	No
2	LogMessage	String	4000	Logger	No
2	LogSource	String	100	Logger	No

Field Descriptions

Name	Description	Example
ProjectId	Identifies the project associated with the original message request that was received. The ID is unique to a project. Value in this field must match the ProjectDisplayId for an existing project.	1023773
InterfaceType	Determines the message type that was originally received by the external system which is being confirmed. Allowed values are: <ul style="list-style-type: none"> Forecast: Used with the Forecast integration. Budget: Used with the Budget integration. CBS: Used with the Cost Breakdown Structure integration. ActualQty: Used with the Quantity integration. PayItem: Used with the Push Pay item integration. ForecastRevenue: Used with the Push forecast revenue integration. TPB: Used with Time phased budget. TPF: Used with time phased forecast. 	Forecast
Status	Determines whether the received data was successfully processed. Allowed values are: <ul style="list-style-type: none"> SUCCESS FAIL 	SUCCESS
LogToken	LogToken provided within the JSON of the original message that is being confirmed. In the CBS integration, this is called the 'ErrorHandlingToken'. It is important to ensure the LogToken sent in this field is matched properly to the request that is being confirmed. InEight will use the log token in the confirmation to flag data as having been synchronized with the external system.	9eb69b8d-03f7-4f0c-9c9a-f2705fecfd13
Logger	Array header of LogErrors for integration. Fields within this array can be repeated for multiple errors that may have occurred in the ERP.	
LogDate	Date and time that the log error message was created in the external system.	2020-07-28T04:43:56.2210625+00:00
LogLevel	Is Error for the type of log.	Error
LogMessage	Message that is shown for the reason the failure occurred.	Unable to process CBS
LogSource	Area where the log occurred.	ERP

Sample JSON

Sample 1: Forecast

```
{
  "ProjectId": "190000",
  "InterfaceType": "Forecast",
  "Status": "SUCCESS",
  "LogToken": "9eb69b8d-03f7-4f0c-9c9a-f2705fecfd13",
  "Logger": ""
}
```

Sample 2: Quantities

```
{
  "ProjectId": "190000",
  "InterfaceType": "ActualQty",
  "Status": "SUCCESS",
  "LogToken": "31fca2ff-556d-440f-a026-34a9a51734c4",
  "Logger": ""
}
```

Sample 3: Budget

```
{
  "ProjectId": "190000",
  "InterfaceType": "Budget",
  "Status": "SUCCESS",
  "LogToken": "4d59e065-e662-4a57-8599-8ee721761d4d",
  "Logger": ""
}
```

Sample 4: Cost Breakdown Structure

```
{
  "ProjectId": "190000",
  "InterfaceType": "CBS",
  "Status": "SUCCESS",
  "LogToken": "355a1fde-6cb6-4538-b583-a0c1cd2072b8",
  "Logger": ""
}
```

Sample 5: Error Message

```
{
  "ProjectId": "10000",
  "InterfaceType": "CBS",
  "Status": "Failure",
  "LogToken": "355alfde-6cb6-4538-b583-a0c1cd2072b8",
  "Logger": [
    {
      "LogDate": "2020-07-28T04:43:56.2210625+00:00",
      "LogLevel": "Error",
      "LogMessage": "Unable to process CBS with correlation f7f4b303-0d06-4766-bcec-ae25b833ab03.",
      "LogSource": "External system"
    },
    {
      "LogDate": "2020-07-28T04:43:56.2210625+00:00",
      "LogLevel": "Error",
      "LogMessage": "CBS FAILED.",
      "LogSource": "External system"
    }
  ]
}
```

Verification

Success and failure records of confirmations are available in the InEight Control product Workspaces module. To see the records, go to Audit Log, and then select **Integration**. To see detailed information of a (failed) record, click the link provided in the **Processing details** column.

PAY ITEMS CHANGE REGISTER AUDIT LOG									
Actions									
	Audit ID	Interface	Status	Processing details	Start	Finish	User name	Log Handle	
CBS	<input type="checkbox"/>	61862	LiveForecast	Succeeded	4 of 4	11/12/2018 01:2...	11/12/2018 01:2...	Purushotham Re...	50ff4dc9-7d54-4...
ACS	<input type="checkbox"/>	61861	Budget	Succeeded	4 of 4	11/12/2018 01:2...	11/12/2018 01:2...	Purushotham Re...	03a8ceab-cbe5-...
Pay items	<input type="checkbox"/>	61860	CBS	Succeeded	4 of 4	11/12/2018 01:2...	11/12/2018 01:2...	Purushotham Re...	ce3ea80a-192b-...
Integration	<input type="checkbox"/>	61859	Budget	Succeeded	4 of 4	11/12/2018 01:2...	11/12/2018 01:2...	Purushotham Re...	fec2b620-d783-...
Import history	<input type="checkbox"/>	61858	CBS	Succeeded	4 of 4	11/12/2018 01:2...	11/12/2018 01:2...	Purushotham Re...	cf816afd-1bb3-4...
	<input type="checkbox"/>	61857	CBS	Succeeded	4 of 4	11/12/2018 01:2...	11/12/2018 01:2...	Purushotham Re...	08323fd-d346-...
	<input type="checkbox"/>	61856	CBS	Succeeded	4 of 4	11/12/2018 01:2...	11/12/2018 01:2...	Purushotham Re...	992f2c76-bdbe-...
	<input type="checkbox"/>	61855	ActualQty	Cancelled	Cancelled at 3	11/11/2018 10:5...	11/11/2018 10:5...	Babu Velu	8d332b6e-9e3f-...
	<input type="checkbox"/>	61854	LiveForecast	Cancelled	Cancelled at 3	11/11/2018 10:5...	11/11/2018 10:5...	Babu Velu	1d20c6f4-0c0a-...
	<input type="checkbox"/>	61853	Budget	Cancelled	Cancelled at 4	11/11/2018 10:5...	11/11/2018 10:5...	Babu Velu	7f400dfc-6828-4...
	<input type="checkbox"/>	61852	CBS	Succeeded	4 of 4	11/11/2018 10:5...	11/11/2018 10:5...	Babu Velu	a9e7d7ed-2480-...

Actual Cost and Man Hours (Request) - Sync

This integration represents the request made by a user in InEight Control to obtain actuals that have been recorded in an ERP or other customer system. The request determines the time frame of the information that is being requested but does not determine the grouping of the data that will be sent back. See [Actual Cost and Man Hours \(Response\)](#) for more details.

Direction		From InEight Control
Frequency		On-demand from users of Control.
Trigger Methods		Manually triggered by user within Control UI.
Average Payload Size		Small payload with details for assembling the requested data.
APIM Name		Not available through APIM.
InEight Control	Starting Version	18.1
	Ending Version	
Configuration Entity Name		Control: Request Cost and Man Hours

Request Date Range

The Date/Time From and Date/Time To fields in this request are automatically populated when a user requests to initiate a synchronization of actuals from InEight Control. The Date/Time From is set based on the last time the actuals request was initiated and successful and the Date/Time To field is based on the current time the request is made. When this request is executed for the first time, the date and time from the request period is set to the project start date. If the first date of the request spans multiple financial periods since the start of the project, multiple requests will be sent to the ERP; one for each financial period and require separate responses for each request. An error occurs if the project does not have a start date set.

To verify a start date is set for the project, from All projects & organizations select a project, and then click to edit the project. The Project Details page opens to show the project start date and end date.

Project details

Add project image

* Project ID
243424

* Name
test project 03

* Organization
S100000 - PKS Inc : Core_Smoke_Jun_27_Editd_12

* External project ID
243424

* Status
Active

End date

Start date

JANUARY 2019

Su	Mo	Tu	We	Th	Fr	Sa
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

Configuration option

In *organization* > Settings > Control > **Sync integrations** the option, Actual Cost and Mhr Sync Options allows a customer to determine if they want more than one request for a fiscal period. The default is set to *Off*, which allows Control to send more than one request per fiscal period that the sync has not been successful.

PROJECT TRACKING
FORECAST
ESTIMATE RESOURCES
SCHEDULE
SYNC INTEGRATIONS
OTHERS

Actual Cost and Mhr Sync Options

Send one request ⓘ ⊖

If you change the setting to *On*, Control will send only one request for one fiscal period if the customer has not synced successfully for more than one fiscal period.

Fields

Depth	Name	Type	Precision	Parent
1	ProjectId ¹	String	30	
1	DateFrom	String	25	
1	TimeFrom	String	25	
1	DateTo	String	25	
1	TimeTo	String	25	
1	LogToken	String	50	

¹ – Natural Key field.

Field Descriptions

Name	Description	Example
ProjectId	Identifies the project associated with actuals data being requested by the ERP. The ID is unique to a project. The value in this field must match the ProjectDisplay field in the UI of an existing project.	10346
DateFrom	Beginning date for all actuals to return. Starting date is determined by InEight based on the last date the integration was executed and successful.	2017-09-01
TimeFrom	Starting time for all actuals to return.	15:08:25
DateTo	Ending date of actuals to return.	2017-09-01
TimeTo	Ending time of actuals to return.	15:09:06
LogToken	Unique identifier (GUID) that can be used when viewing or obtaining error records in InEight error logging for each integration request.	Ca30fd02-5078-43c3-9ff0-97d30d2e6824

Sample JSON

```
{
  "LoadActualCostHours_HDS": {
    "ProjectId": "105508",
    "DateFrom": "2018-03-13",
    "TimeFrom": "00:00:00",
    "DateTo": "2018-03-15",
    "TimeTo": "12:00:00",
    "LogToken": "079DD6B2-DFB4-4615-BCBB-0E509D3E2444"
  }
}
```

Actual Cost and Man Hours (Response) - Sync

Customers can decide from the following options for how the data is returned from their ERP to InEight Control:

- WBS by posting date: A record for one posted date by WBS that can have multiple transactions grouped.
- WBS by financial period: One record for each WBS and each Financial Period when postings occurred that can have multiple transactions grouped.
- WBS summary: One record for each WBS. All transactions that occurred for a WBS are sent back to Control as one record, regardless of the posted date or fiscal period.
- Detailed transactions: A one to one match of a record in the ERP to a record posted in Control. If the ERP stores to a very small level of granularity this option is not recommended.

Control expects the values that are sent by the ERP to represent transactional totals within the date range given in the request. Values should not represent job-to-date entries.

Direction	To the InEight cloud platform.	
Frequency	On demand, as a response to Actuals Request.	
Trigger Methods	In response to Actuals Request.	
Average Payload Size	Varies depending on the method chosen by the customer to summarize data. <ul style="list-style-type: none"> • By Posting Date: Large payload; one record per WBS for each date on which that WBS has an entry. • By Financial Period: Potentially thousands of entries; one record per WBS within each Financial Period covered by the request. • WBS Level Summary: Smallest payload; one record per WBS with data for the requested period. • Detailed: Largest payload; can potentially contain tens of thousands of records. 	
APIM Name	Create Actuals Sync	
InEight Control	Starting Version	18.1
	Ending Version	

Fields

Depth	Name	Type	Precision ¹	Parent
1	ProjectId ²	String	24	
1	Actuals	Array	NA	
2	PhaseCode	String	24	Actuals
2	LaborHours	Number	22,11	Actuals
2	EquipmentHours	Number	22,11	Actuals
2	IsActive	Boolean	NA	Actuals
2	Cost	Object	NA	Actuals

Depth	Name	Type	Precision ¹	Parent
3	CostCategories	Array	NA	Cost
4	Name	String	30	CostCategories
4	Amount	Number	30	CostCategories
2	PeriodStart	String	25	Actuals
2	PeriodEnd	String	25	Actuals
2	Duration	Number	22,11	Actuals
2	TotalAmount	Number	22,11	Actuals
2	ActualsUserDefined1	String	25	Actuals
2	ActualsUserDefined2	String	25	Actuals
2	ActualsUserDefined3	String	250	Actuals
2	ActualsUserDefined4	String	250	Actuals
2	ActualsUserDefined5	String	250	Actuals
2	ActualsUserDefined6	String	250	Actuals
2	EstimateResource	String	250	Actuals
1	LogToken	String	50	
1	Logger	Array		
2	LogDate	Date/Time		Logger
2	LogLevel	String	20	Logger
2	LogMessage	String	4000	Logger
2	LogSource	String	100	Logger

1 – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 – Natural Key field.

Field Descriptions

Name	Description	Example
ProjectId	Identifies the project associated with the Actuals request that was received. The ID is unique to a project. The value in this field must match the Project Display in the UI of an existing Project.	10346
Actuals	Array header of the cost item records for actuals. All fields within this array can be repeated for each cost item that has data.	
PhaseCode	WBS phase code associated with the cost item for the actuals record.	1288

Name	Description	Example
LaborHours	Total of labor hours for the time span of the request. Context of this value is determined by the grouping/summarization method chosen for the response (See description at the top of this integration).	0.000
EquipmentHours	Total of equipment hours for the time span of the request. The context of this value is determined by the grouping/summarization method chosen for the response (See description at the top of this integration).	0.000
IsActive	Legacy functionality. Values sent in this field are not used.	True
Cost	Cost breakdown records within the cost item record.	
CostCategories	Array header of cost categories for the cost item record. Fields within this array can be repeated for each cost category that contains a value.	
Name	Record for each cost category under the WBS phase code that has actuals associated with it. See Appendix A for a full list of available Cost Category Names that can be used – Send the value in the SourceSystemId column of the Appendix.	Supplies
Amount	The amount for the cost category record. The context of this value is determined by the grouping/summarization method chosen for the response (See description at the top of this integration).	200.00
PeriodStart	Beginning date of the values represented by the record: <ul style="list-style-type: none"> Posting Date: Use the posting date for which transactions were summarized for the record. Financial Period: Use the starting date of the financial period requested. Detailed: Use the posting date of the individual transaction. Values sent in this field are used in the Audit Log as the Period Start. 	2017-08-16
PeriodEnd	Ending date of the values represented by the record: <ul style="list-style-type: none"> Posting Date: Use the posting date for which transactions were summarized for the record. Financial Period: Use the ending date of the financial period requested. Detailed: Use the posting date of the individual transaction. Values sent in this field are used in the Actuals History as the Posting Date and Audit Log for the Period End. 	2017-08-16
Duration	Values sent in this field are not used.	0.000
TotalAmount	Values in this field are not used. The Total is calculated by the sum of all Amount fields sent in the CostCategories array for a Cost Item.	200.00
ActualsUserDefined1	A date field associated to the actual transaction.	2024-09-09
ActualsUserDefined2	A date field associated to the actual transaction.	2024-09-09

Name	Description	Example
ActualsUserDefined3	A free-form text field associated to the actual transaction.	User defined 3
ActualsUserDefined4	A free-form text field associated to the actual transaction.	User defined 4
ActualsUserDefined5	A free-form text field associated to the actual transaction.	User defined 5
ActualsUserDefined6	A free-form text field associated to the actual transaction.	User defined 6
EstimateResource	An estimate resource code associated to the actual transaction.	Labor1
LogToken	Unique identifier (GUID) that can be used when viewing or obtaining error records in InEight error logging for each integration request.	B314c786-50f2-4b0b-a396-ccc8dbf09217
Logger	Array header of LogErrors for integration. Fields within this array can be repeated for multiple errors that may have occurred in the ERP.	
LogDate	Date and time that the log error message was created in the external system	2020-09-24T19:07:57.102185+00:00
LogLevel	Is Error for the type of log.	Error
LogMessage	Message that is shown for the reason the failure occurred.	Unable to process Actual cost and manhours
LogSource	Area where the log occurred.	ERP

Sample JSON

```
[
  {
    "ProjectId": "TestProject",
    "Actuals": [
      {
        "PhaseCode": "1000",
        "LaborHours": 39.0,
        "EquipmentHours": 39.0,
        "IsActive": true,
        "Cost": {
          "CostCategories": [
            {
              "Name": "OE Depreciation",
              "Amount": 6118.0
            }
          ]
        },
        "PeriodStart": "9/8/2024 12:00:00 AM",
        "PeriodEnd": "9/9/2024 12:00:00 AM",
        "Duration": 1.0,
        "TotalAmount": 6118.0,
        "ActualsUserDefined1": "",
        "ActualsUserDefined2": "",
        "ActualsUserDefined3": "",
        "ActualsUserDefined4": ""
      }
    ]
  }
]
```

```

    "ActualsUserDefined5": "",
    "ActualsUserDefined6": "",
    "EstimateResource": ""
  },
  {
    "PhaseCode": "1000",
    "LaborHours": 39.0,
    "EquipmentHours": 39.0,
    "IsActive": true,
    "Cost": {
      "CostCategories": [
        {
          "Name": "OE Depreciation",
          "Amount": 3372.0
        }
      ]
    },
    "PeriodStart": "9/9/2024 12:00:00 AM",
    "PeriodEnd": "9/10/2024 12:00:00 AM",
    "Duration": 1.0,
    "TotalAmount": 3372.0,
    "ActualsUserDefined1": "2024-09-09",
    "ActualsUserDefined2": "2024-09-09",
    "ActualsUserDefined3": "udf3",
    "ActualsUserDefined4": "udf4",
    "ActualsUserDefined5": "udf5",
    "ActualsUserDefined6": "udf6",
    "EstimateResource": "Labor1"
  }
],
"LogToken": "7720b051-b5fd-466e-87d4-b00674353346",
"Logger": [
  ""
]
}
]

```

Sample Error Message

```

[
{
"ProjectId": "10000",
"Actuals": [],
"LogToken": "eb838a9d-3c48-4af3-a3f9-efb0b2188a51",
"Logger": [
{
"LogDate": "2020-09-24T19:07:57.102185+00:00",
"LogLevel": "Error",
"LogMessage": "Unable to process Actual Mh Cost with correlation eb838a9d-3c48-4af3-a3f9-efb0b2188a51.",
"LogSource": "ERP"
},
{
"LogDate": "2020-09-24T19:07:57.102185+00:00",
"LogLevel": "Error",
"LogMessage": "ACTUALMHCCOST FAILED."
}
]
}
]

```

```

    "LogSource": "ERP"
  }
]
}
]

```

Verification

View Actuals

After the actual details are posted to Control, you can view them on the **Actuals History** tab in the **View Actuals details** slide-out panel. The posting date, quantity, cost, man-hours and equipment hours are based on the details mentioned against the highlighted cost item (or WBS phase code), in the response JSON. To open the slide-out panel, right-click the cost item, and then select **View Actuals details** in the menu.

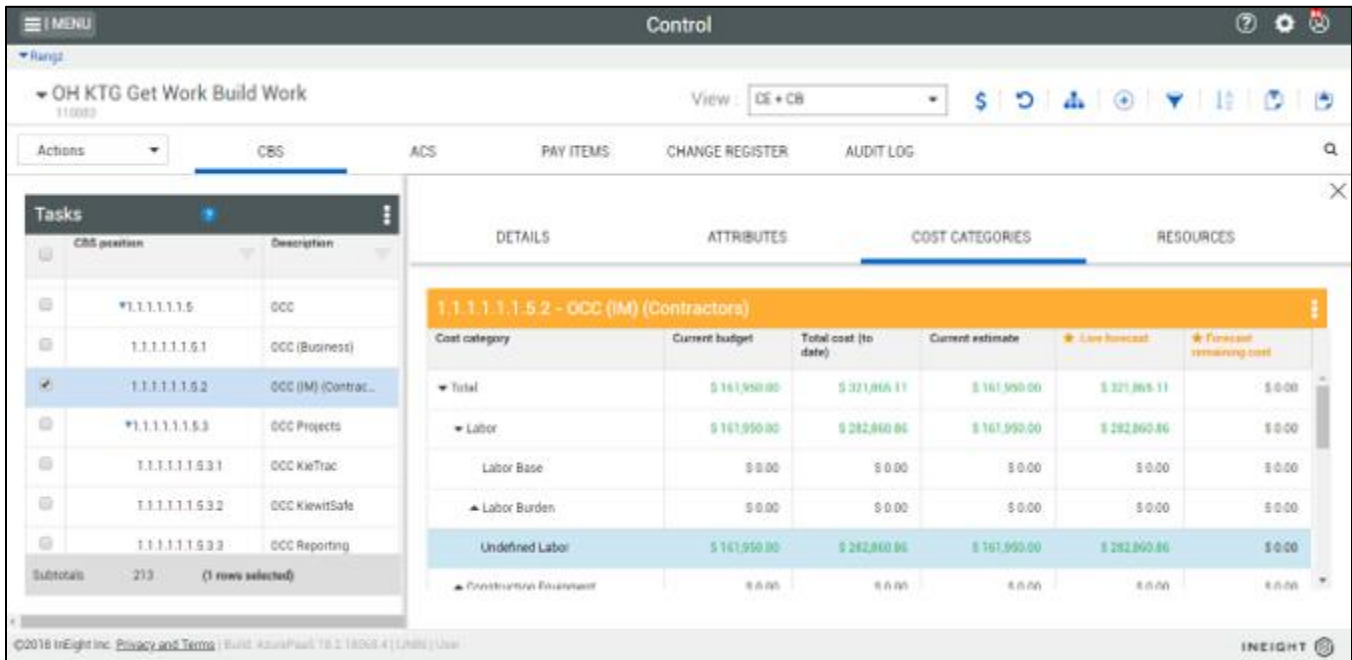
The screenshot shows the InEight Control interface. On the left, a 'Tasks' table lists various CBS positions. The task '1.1.1.1.1.5.2' is selected. On the right, a slide-out panel titled 'ACTUALS HISTORY' displays a table of actuals data.

Posting date	Quantity	Cost	Man hours	Equipment hours
3/28/2015	0	\$ 43,188.80	556.5	0
4/25/2015	0	\$ 30,973.71	416.5	0
5/20/2015	0	\$ 125,070.32	371	0
6/27/2015	0	(\$ 24,053.82)	257	0
7/25/2015	0	\$ 19,315.91	257	0

Subtotals: 213 (1 rows selected)

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These actual details also update the cost category details for the same cost item, which you can view by opening the **Cost Item details** slide-out panel. To open the slide-out panel, right-click the cost item, and then select **Cost Item details** in the menu.



Integration Status

There are multiple ways to get the status associated with the Actual cost and manhour sync depending on the issue or how the customer wants to view the status of the integration.

- Results are available via the Integration tab in the Audit log, which includes status and processing details including any errors.
- A customer can send a URI within the header of the JSON, the variable X-TaskCompleteCallbackURI sends the results back to that provided URI. The results include the project, status, and any reasons for failure.
- A location field is available in the results in the response header.

Sample:

Location <https://qa.hds.ineight.com/ExternalSystem//Messages/Status?messageId=772d849e-4739-4e34-9467-0da05b9434e0>

A system must be able to go to that URI and see if the API was successful or failed.

Sample:

Success

```
{
  "Status": "Success",
  "CorrelationID": "fd058d5f-d22f-4056-8c72-6c25265707f0",
  "ProjectDisplay": "103093",
}
```

```
"ErrorDetails": []
}
```

Failure

```
{
  "Status": "Failed",
  "CorrelationID": "de068edb-b9ac-4281-8a08-7926ae2fe316",
  "ProjectDisplay": "GoldenSnapshot26072022180836",
  "ErrorDetails": [
    {
      "ErrorCode": 10014,
      "ErrorDescription": "In order to claim man hours 'Allow as built' value within Control must be set to 'All' or 'Cost'",
      "CostItemList": [
        {
          "Code": "1007"
        }
      ]
    }
  ]
}
```

Error Codes

12001	In order to claim hours 'Allow as built' value within Control must be set to 'All' or 'Cost'
12002	In order to claim equipment hours 'Allow as built' value within Control must be set to 'All' or 'Cost'
12003	In order to claim cost 'Allow as built' value within Control must be set to 'All' or 'Cost'
10029	System Error. Kindly try again later

Committed Cost (Request) - Sync

This integration represents the request made by a user in InEight Control by running the Sync menu Actuals Cost and MH to obtain total commitments and open commitments by cost category that have been recorded in an ERP or other customer system. The request determines the time frame of the information that is being requested, see [Committed Cost \(Response\)](#) for more details.

Direction	From InEight Control	
Frequency	On-demand from users of Control.	
Trigger Methods	Manually triggered by user within Control UI.	
Average Payload Size	Varies based on the amount of cost items that have committed cost with their cost categories.	
APIM Name	Not available through APIM.	
InEight Control	Starting Version	20.2
	Ending Version	
Configuration Entity Name	Control: Committed Cost	

Request Date Range

The Current Date/Time fields in this request are automatically populated when a user requests to initiate a synchronization of commitments from InEight Control. Because Committed cost is not a transactional field, the expectation is that full total commitment and open commitment will be sent back to Control.

Fields

Depth	Name	Type	Precision	Parent
1	ProjectId ¹	String	30	
1	CurrentDate	String	25	
1	CurrentTime	String	25	
1	LogToken	String	50	

¹ – Natural Key field.

Field Descriptions

Name	Description	Example
ProjectId	Identifies the project associated with actuals and commitment data being requested by the ERP. The ID is unique to a project. The value in this field must match the Project Display field in the UI of an existing project.	10346
DateCurrent	Current date for all commitments to return.	2017-09-01
TimeCurrent	Starting time for all commitments to return.	15:08:25
LogToken	Unique identifier (GUID) that can be used when viewing or obtaining error records in InEight error logging for each integration request.	Ca30fd02-5078-43c3-9ff0-97d30d2e6824

Sample JSON

```
{
  "LoadCommittedCost_HDS": {
    "CurrentDate": "2020-02-28",
    "CurrentTime": "20:48:08",
    "LogToken": "15b867e4-172b-48d2-b0a9-882fed3bd2c4",
    "ProjectId": "190000"
  }
}
```

Committed Cost (Response) - Sync

InEight Control expects the values that are sent by the ERP to represent the total amount of committed cost and open commitment for a cost item.

Direction	To the InEight cloud platform.	
Frequency	On demand, as a response to Committed Cost Request.	
Trigger Methods	In response to Actuals Request.	
Average Payload Size	Varies depending on the amount of cost items in the project and how many have committed cost	
APIM Name	Upsert Committed Cost Sync	
InEight Control	Starting Version	20.2
	Ending Version	

Fields

Depth	Name	Type	Precision ¹	Parent
1	ProjectDisplay	String	24	
1	CommittedCost	Array	NA	
2	PhaseCode	String	24	CommittedCost
2	CBSPosition	Boolean	NA	CommittedCost
2	OpenCommitment	Array	NA	CommittedCost
3	CostCategories	Array	NA	OpenCommitment
4	Name	String	30	CostCategories
4	Amount	Number	22,11	CostCategories
2	TotalCommitment	Array	NA	CommittedCost
3	CostCategories	Array	NA	TotalCommitment
4	Name	String	30	CostCategories
4	Amount	Number	22,11	CostCategories
1	LogToken	String	50	
1	Logger	Array		
2	LogDate	Date/Time		Logger
2	LogLevel	String	20	Logger
2	LogMessage	String	4000	Logger
2	LogSource	String	100	Logger

1 – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
ProjectDisplay	Identifies the project associated with the Actuals/Commitment request that was received. The ID is unique to a project. The value in this field must match the Project Display field in the UI of an existing project.	10346
CommittedCost	Array header of the cost item records for commitment. All fields within this array can be repeated for each cost item that has data.	
PhaseCode	WBS phase code associated with the cost item for the commitment record. NOTE: If CBSPosition is sent, then PhaseCode is not required.	1288
CBSPosition	CBS Position associated with the cost item for the commitment record. NOTE: If PhaseCode is sent, then CBSPosition is not required.	1.1.1
OpenCommitment	Array header for the open commitment for the cost item records. All fields within this array can be repeated for each cost item that has data. NOTE: Open commitment is referred to as Remaining commitment within the Control UI.	
CostCategories	Array header of cost categories for the cost item record. Fields within this array can be repeated for each cost category that contains a value.	0.000
Name	Record for each cost category under the WBS phase code that has actuals associated with it. See Appendix A for the full list of available cost category names that can be used, then send the value provided in the SourceSystemId column.	Supplies
Amount	The amount for the cost category record.	200.00
TotalCommitment	Array header for the open commitment for the cost item records. All fields within this array can be repeated for each cost item that has data.	
CostCategories	Array header of cost categories for the cost item record. Fields within this array can be repeated for each cost category that contains a value.	
Name	Record for each cost category under the WBS phase code that has actuals associated with it. See Appendix A for the full list of available cost category names that can be used, then send the value provided in the SourceSystemId column.	Supplies
Amount	Amount for the cost category record.	200.00

Name	Description	Example
LogToken	Unique identifier (GUID) that can be used when viewing or obtaining error records in InEight error logging for each integration request.	B314c786-50f2-4b0b-a396-ccc8dbf09217
Logger	Array header of LogErrors for integration. Fields within this array can be repeated for multiple errors that may have occurred in the ERP.	
LogDate	Date and time that the log error message was created in the external system	2020-09-24T19:07:57.102185+00:00
LogLevel	Is Error for the type of log.	Error
LogMessage	Message that is shown for the reason the failure occurred.	Unable to process Committed Cost
LogSource	Area where the log occurred.	ERP

Sample JSON

```
[
  {
    "ProjectDisplay": "190000"
    "CommittedCost": [
      {
        "PhaseCode": "1012",
        "CBSPosition": "",
        "OpenCommitment": {
          "CostCategories": [
            {
              "Name": "Job Insurance",
              "Amount": "686"
            }
          ]
        },
        "TotalCommitment": {
          "CostCategories": [
            {
              "Name": "Job Insurance",
              "Amount": "686"
            }
          ]
        }
      },
      {
        "PhaseCode": "1335",
        "CBSPosition": "",
        "OpenCommitment": {
          "CostCategories": [
            {
              "Name": "OE LicenseOE Taxes",
              "Amount": "6327"
            }
          ]
        },
        "TotalCommitment": {
          "CostCategories": [
```

```
    {
      "Name": "OE LicenseOE Taxes",
      "Amount": "6327"
    }
  ],
  {
    "PhaseCode": "1334",
    "CBSPosition": "",
    "OpenCommitment": {
      "CostCategories": [
        {
          "Name": "OE Undefined Ownership1",
          "Amount": "7967"
        }
      ],
      "TotalCommitment": {
        "CostCategories": [
          {
            "Name": "OE Undefined Ownership1",
            "Amount": "7967"
          }
        ]
      }
    }
  ],
  "LogToken": "77f0e240-cb81-4ddd-9dda-35b965371ee1"
}
```

Sample Error Message

```
[
  {
    "ProjectDisplay": "10000",
    "CommittedCost": [],
    "LogToken": "74c87ff5-caf4-4e30-a124-a9b13562d1e1",
    "SourceSystemId": "",
    "SourceSystemName": "",
    "Logger": [
      {
        "LogDate": "2020-09-24T19:07:57.0240776+00:00",
        "LogLevel": "Error",
        "LogMessage": "Unable to process Committed Cost with correlation 74c87ff5-caf4-4e30-a124-a9b13562d1e1.",
        "LogSource": "ERP"
      },
      {
        "LogDate": "2020-09-24T19:07:57.0240776+00:00",
        "LogLevel": "Error",
        "LogMessage": "COMMITTEDCOST FAILED.",
        "LogSource": "ERP"
      }
    ]
  }
]
```

Verification

View Committed Cost

After the committed cost values are posted to Control, you can view them on the **Commitments** tab in the **View Actuals details** slide-out panel. To open the slide-out panel, right-click on the cost item, and then select **View Actuals details** in the menu.

Cost category	Open committed cost adjustment	New open committed cost	Total committed cost adjustment	New total committed cost
^ Total	\$ 0.00	\$ 16,534.00	\$ 0.00	\$ 16,534.00
Labor	\$ 0.00	\$ 11,812.00	\$ 0.00	\$ 11,812.00
Construction Equipment	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
FOM Rented Equipment	\$ 0.00	\$ 4,722.00	\$ 0.00	\$ 4,722.00
Supplies	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Materials	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Subcontract	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Fees	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Allowance	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
G & A	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Undefined	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

These commitments by cost category for the same cost item, can be viewed by opening the **Cost Item details** slide-out panel. To open the slide-out panel, right-click the cost item, and then select **Cost Item details** in the menu. These new columns are available through the column chooser.

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DETAILS
ATTRIBUTES
COST CATEGORIES
RESOURCES

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Cost category	Current budget	Total cost (to date)	Current estimate	★ Live forecast	Open committed cost	Total committed cost
^ Total	\$ 86,790.41	\$ 12,000.00	\$ 86,790.41	\$ 28,534.00	\$ 16,534.00	\$ 16,534.00
v Labor	\$ 86,790.41	\$ 12,000.00	\$ 86,790.41	\$ 23,812.00	\$ 11,812.00	\$ 11,812.00
v Construction...	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v FOM Rented ...	\$ 0.00	\$ 0.00	\$ 0.00	\$ 4,722.00	\$ 4,722.00	\$ 4,722.00
v Supplies	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Materials	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Subcontract	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Fees	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Allowance	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
G & A	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Undefined	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Man hours	864.00	0.00	864.00	0.00		

Committed Cost (Generic) - Post

InEight Control expects the values that are sent by the ERP to represent the total amount of committed cost and open commitment for a cost item.

Direction	To the InEight cloud platform.	
Frequency	On demand.	
Trigger Methods	External	
Average Payload Size	Varies depending on the amount of cost items in the project and how many have committed cost	
APIM Name	Upsert Committed Cost Generic	
InEight Control	Starting Version	20.7
	Ending Version	

Fields

Depth	Name	Type	Precision ¹	Parent
1	ProjectDisplay	String	24	
1	CommittedCost	Array	NA	
2	PhaseCode	String	24	CommittedCost
2	CBSPosition	Boolean	NA	CommittedCost
2	OpenCommitment	Array	NA	CommittedCost
3	CostCategories	Array	NA	OpenCommitment
4	Name	String	30	CostCategories
4	Amount	Number	22,11	CostCategories
2	TotalCommitment	Array	NA	CommittedCost
3	CostCategories	Array	NA	TotalCommitment
4	Name	String	30	CostCategories
4	Amount	Number	22,11	CostCategories
1	SourceSystemId	String	50	
1	SourceSystemName	String	50	

¹ – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
ProjectDisplay	Identifies the project associated with the Actuals request that was received. The ID is unique to a project. The value in this field must match the external Project ID field in the UI of an existing project.	10346
CommittedCost	Array header of the cost item records for commitment. All fields within this array can be repeated for each cost item that has data.	
PhaseCode	WBS phase code associated with the cost item for the commitment record. NOTE: If CBSPosition is sent, then PhaseCode is not required.	1288
CBSPosition	CBS Position associated with the cost item for the commitment record. NOTE: If PhaseCode is sent, then CBSPosition is not required.	1.1.1
OpenCommitment	Array header for the open commitment for the cost item records. All fields within this array can be repeated for each cost item that has data	
CostCategories	Array header of cost categories for the cost item record. Fields within this array can be repeated for each cost category that contains a value.	0.000
Name	Record for each cost category under the WBS phase code that has actuals associated with it. See Appendix A for the full list of available cost category names that can be used, then send the value provided in the SourceSystemId column.	Supplies
Amount	The amount for the cost category record.	200.00
TotalCommitment	Array header for the open commitment for the cost item records. All fields within this array can be repeated for each cost item that has data.	
CostCategories	Array header of cost categories for the cost item record. Fields within this array can be repeated for each cost category that contains a value.	
Name	Record for each cost category under the WBS phase code that has actuals associated with it. See Appendix A for the full list of available cost category names that can be used, then send the value provided in the SourceSystemId column.	Supplies
Amount	Amount for the cost category record.	200.00
SourceSystemId	ID of the payload	81de2acd1cf74401bfdd04e1db9b3944
SourceSystemName	Describes the external system from where the information was stored.	External System

Sample JSON

```
[
  {
    "ProjectDisplay": "190000"
    "CommittedCost": [
      {
        "PhaseCode": "1012",
        "CBSPosition": "",
        "OpenCommitment": {
          "CostCategories": [
            {
              "Name": "Job Insurance",
              "Amount": "686"
            }
          ]
        },
        "TotalCommitment": {
          "CostCategories": [
            {
              "Name": "Job Insurance",
              "Amount": "686"
            }
          ]
        }
      },
      {
        "PhaseCode": "1335",
        "CBSPosition": "",
        "OpenCommitment": {
          "CostCategories": [
            {
              "Name": "OE LicenseOE Taxes",
              "Amount": "6327"
            }
          ]
        },
        "TotalCommitment": {
          "CostCategories": [
            {
              "Name": "OE LicenseOE Taxes",
              "Amount": "6327"
            }
          ]
        }
      },
      {
        "PhaseCode": "1334",
        "CBSPosition": "",
        "OpenCommitment": {
          "CostCategories": [
            {
              "Name": "OE Undefined Ownership1",
              "Amount": "7967"
            }
          ]
        },
        "TotalCommitment": {
          "CostCategories": [
            {
              "Name": "OE Undefined Ownership1",

```



```

    "Amount": "7967"
  }
}
],
"SourceSystemId": "81de2acd1cf74401bfdd04e1db9b3944",
"SourceSystemName": "External System",
}
]

```

Verification

View Committed Cost import status and failures

Example of a successful import:

File name	Status	Processing Details	Total line items	Errors	Total imported	Added estimate resources	Added pay items	Created by	Created date	Last edited by	Last edited date
Committed Cost from External System	Complete		1	0	1	0	0	Service Account	07/16/2020 10:26 PM	Service Account	07/16/2020 10:26 PM

Example of a failed import:

File name	Status	Processing Details	Total line items	Errors	Total imported	Added estimate resources	Added pay items	Created by	Created date	Last edited by	Last edited date
Committed Cost from External System	Failed with errors		1	1	0	0	0	Service Account	07/16/2020 10:26 PM	Service Account	07/16/2020 10:26 PM

There is an available file to download to help with errors.

View Committed Cost

After the committed cost values are posted to Control, you can view them on the **Commitments** tab in the **View Actuals details** slide-out panel. To open the slide-out panel, right-click on the cost item, and then select **View Actuals details** in the menu.

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CLAIM ACTUALS ACTUALS HISTORY **COMMITMENTS**

Open committed cost Total committed cost
\$ 16,534.00 \$ 16,534.00

Cost category	Open committed cost adjustment	New open committed cost	Total committed cost adjustment	New total committed cost
^ Total	\$ 0.00	\$ 16,534.00	\$ 0.00	\$ 16,534.00
v Labor	\$ 0.00	\$ 11,812.00	\$ 0.00	\$ 11,812.00
v Construction Equipment	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v FOM Rented Equipment	\$ 0.00	\$ 4,722.00	\$ 0.00	\$ 4,722.00
v Supplies	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Materials	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Subcontract	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Fees	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Allowance	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
G & A	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Undefined	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

Cancel Apply

These commitments by cost category for the same cost item, can be viewed by opening the **Cost Item details** slide-out panel. To open the slide-out panel, right-click the cost item, and then select **Cost Item details** in the menu. These new columns are available through the column chooser.

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DETAILS ATTRIBUTES **COST CATEGORIES** RESOURCES

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Cost category	Current budget	Total cost (to date)	Current estimate	★ Live forecast	Open committed cost	Total committed cost
^ Total	\$ 86,790.41	\$ 12,000.00	\$ 86,790.41	\$ 28,534.00	\$ 16,534.00	\$ 16,534.00
v Labor	\$ 86,790.41	\$ 12,000.00	\$ 86,790.41	\$ 23,812.00	\$ 11,812.00	\$ 11,812.00
v Construction...	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v FOM Rented ...	\$ 0.00	\$ 0.00	\$ 0.00	\$ 4,722.00	\$ 4,722.00	\$ 4,722.00
v Supplies	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Materials	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Subcontract	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Fees	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
v Allowance	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
G & A	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Undefined	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Man hours	864.00	0.00	864.00	0.00		

Actuals (Generic) - Post

The actuals (generic) allows actual cost, quantity, equipment hours and man-hours to be associated to a cost item based on the joining criteria of WBS phase code or CBS position for a project. InEight Control expects the values that are sent by the ERP to represent transactional totals from the last time actuals were sent to Control. The values should not represent job "to-date" entries.

Direction	External system to the InEight cloud platform.	
Frequency	Determined by external system.	
Trigger Methods	Determined by external system.	
Average Payload Size	Entire entity –thousands of records. Recommended: <ul style="list-style-type: none"> • Maximum number of transactions is 10,000. • Group transactions on a project, do not send individual transactions in a payload one by one. • If group exceeds 10,000 transactions and requires more than one payload, allow five minutes between payloads. • A project will process the payloads received one at a time; it will not process multiple payloads in parallel. However, multiple projects can be processed at the same time. 	
APIM Name	Create Actuals Generic	
InEight Control	Starting Version	18.2
	Ending Version	

Account Configuration Options

An account level configuration determines if quantities are reported to Control from InEight Plan or InEight Progress, or if quantities are reported from an external system. The table shows the outcomes of the configuration options that impact this integration.

Tenant Configuration ImportQuantities	Cost Item Hide in Plan and Progress ¹	Outcome
Setting value = true	Ignored	All Cost Items in the payload will be accepted. NOTE: The Control UI still validates the Hide in Plan and Progress option normally for manual functions.
Setting value = false (or NULL)	Setting value = true	Quantities for these Cost Items in the payload will be accepted.
	Setting value = false (or NULL)	Quantities for these Cost Items in the payload will be skipped. Quantities may only come from an integration with InEight Plan and/or the InEight Control UI.

¹ – The Hide in Plan and Progress option is checked for each cost item as the integration payload is processed.

Fields

Depth	Name	Type	Precision	Parent	Req.
1	ProjectDisplay	String	50		Yes
1	Actuals	Array	NA		Yes
2	PhaseCode	String	24	Actuals	No ¹
2	CBSPositionCode	String	50	Actuals	No ¹
2	PostingDate	String	25	Actuals	Yes
2	Notes	String	250	Actuals	No
2	Quantity	String	NA	Actuals	No
2	ManHours	String	22	Actuals	No
2	EquipmentHours	String	22	Actuals	No
2	Cost	Array	NA	Actuals	No
3	CostCategories	Array	NA	Cost	No
4	Name	String	30	CostCategories	No
4	Amount	String	30	CostCategories	No
2	ActualsUserDefined1	String	25	Actuals	No
2	ActualsUserDefined2	String	25	Actuals	No
2	ActualsUserDefined3	String	250	Actuals	No
2	ActualsUserDefined4	String	250	Actuals	No
2	ActualsUserDefined5	String	250	Actuals	No
2	ActualsUserDefined6	String	250	Actuals	No
2	EstimateResource	String	50	Actuals	No
2	SourceSystemName	String	50	Actuals	No
2	SourceSystemId	String	50	Actuals	No

¹ – See NOTE in Field Descriptions section for additional field requirements information.

Field Descriptions

Name	Description	Example
ProjectDisplay	Identifies the project associated with the Actuals request that was received. The external project ID is unique to a project.	TestProject
Actuals	Array header of the cost item records for Actuals. All fields within this array can be repeated for each cost item that has data.	

Name	Description	Example
PhaseCode	WBS phase code associated with the cost item for the Actuals record. NOTE: Although stated as not required, either PhaseCode or CBSPositionCode must be provided.	1002
CBSPositionCode	CBS Position Code associated with the cost item for the Actuals record. NOTE: Although stated as not required, either CBSPositionCode or PhaseCode must be provided.	1.1
PostingDate	Date that indicates which financial period the cost, man-hours, equipment hours or quantities will be associated.	10/18/2018
Notes	Any additional information about the transaction.	Maintenance
Quantity	Claimed amount of operational quantity for the cost item.	5
ManHours	Claimed number of man-hours for the cost item.	4
EquipmentHours	Claimed number of equipment-hours for the cost item.	5
Cost	Array header of the cost records for cost categories.	5000
CostCategories	Array header of the cost categories records. All fields within this array can be repeated for each cost item that has data.	
Name	Name of the cost category.	RE Repair Labor
Amount	Claimed amount of cost for that cost category.	5000
ActualsUserDefined1	A date field associated to the actual transaction.	09/09/2024
ActualsUserDefined2	A date field associated to the actual transaction.	09/09/2024
ActualsUserDefined3	A free-form text field associated to the actual transaction.	User defined 3
ActualsUserDefined4	A free-form text field associated to the actual transaction.	User defined 4
ActualsUserDefined5	A free-form text field associated to the actual transaction.	User defined 5
ActualsUserDefined6	A free-form text field associated to the actual transaction.	User defined 6
EstimateResource	An estimate resource code associated to the actual transaction.	Labor1
SourceSystemName	Name of the external system that is using the integration. Work with InEight to provision a unique value for this field.	External System

Name	Description	Example
SourceSystemId	Identifier created by the system of record and used in all system communications as the primary method of specifying a unique record. This field does not display in normal use of InEight applications and can contain internal identifiers such as a GUID that is not understandable by typical system users.	81de2acd1cf74401bfdd04e1db9b3944

Error Messages

The following error messages are generated by the InEight cloud platform and products for this integration. Errors in the table below are distinguished by the process that checks for the error.

- API validation errors are basic record validations that will be returned to the API request message and cause the entire payload to fail.
- Entity logic errors are performed internally within the InEight cloud platform and products to look for specific business rule or data integrity issues record-by-record. Failures with entity logic validations only cause the individual record to cease processing and are written to internal logging.

API/Entity Logic	Condition	Code	Message
API	Project Display cannot be blank.		ProjectDisplay is required.
API	Project Display must have a valid project number in InEight.		ProjectDisplay match not found.

NOTE: See [Verification](#) for more error messages that can be generated from the business logic process.

Sample JSON

```

{
  "ProjectDisplay": "TestProject",
  "Actuals": [{
    "PhaseCode": "1005",
    "CBSPositionCode": "1.2",
    "PostingDate": "06/12/2024",
    "Notes": "Maintenance",
    "Quantity": "5",
    "ManHours": "4",
    "EquipmentHours": "5",
    "ActualsUserDefined1": "06/12/2024",
    "ActualsUserDefined2": "06/12/2024",
    "ActualsUserDefined3": "udf3",
    "ActualsUserDefined4": "udf4",
    "ActualsUserDefined5": "udf5",
    "ActualsUserDefined6": "udf6",
    "EstimateResource": "1-Labor",
    "Cost": {
      "CostCategories": [{
        "Name": "RE Repair Labor",

```

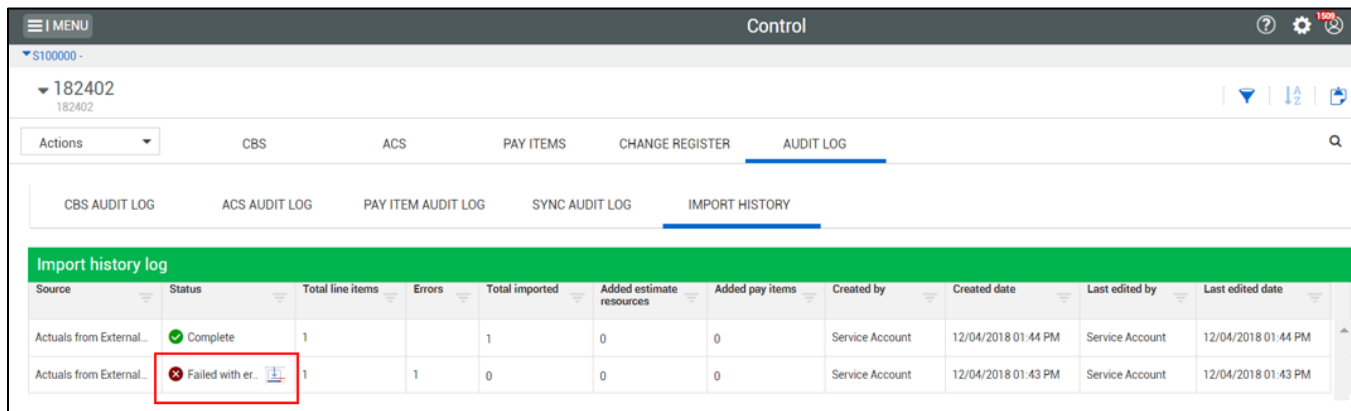
```

        "Amount": "5000"
      }
    }
  },
  "SourceSystemId": "1",
  "SourceSystemName": "External System"
}

```

Verification

Additional error messaging is available through the Integrations log.



The following table lists the error messaging available in the Integrations log file.

Message
WBS phase code match not found
SAP status control value within Control must be blank
At least one among WBS phase code or CBS position code is require
CBS position code match not found
Posting date from external system is required
Posting date format within external system should be MM/DD/YYYY
Posting date in external system must be valid
Posting date in external system must be equal to or less than today's date
Notes in external system exceeds the maximum character limit of 250
Quantities in external system must be a numeric value
Allow-as-built value within Control must be set to 'All' or 'Quantity'
Hide in plan and progress ' value within Control must be set to 'Checked'
Man-hours in external system must be a numeric value
In order to claim man-hours 'Allow as built' value within Control must be set to 'All' or 'Cost'

Message
Equipment-hours in external system must be a numeric value
In order to claim equipment hours 'Allow as built' value within Control must be set to 'All' or 'Cost'
Cost in external system must be a numeric value
In order to claim cost 'Allow as built' value within Control must be set to 'All' or 'Cost'
Cost category in external system is required to claim cost
Cost Category match not found
ProjectDisplay in external system exceeds the maximum character limit of 200
CBS position code in external system exceeds the maximum character limit of 100
Quantity in external system exceeds the maximum character limit of 11 before decimal place
Man-hours in external system exceeds the maximum character limit of 11 before decimal place
Equipment hours in external system exceeds the maximum character limit of 11 before decimal place
Cost in external system exceeds the maximum character limit of 11 before decimal place
Cost category in external system exceeds the maximum character limit of 50
ActualsUserDefined1 has Invalid Date
ActualsUserDefined1 has an invalid format. The Date Format should be MM/dd/yyyy
ActualsUserDefined2 has Invalid Date
ActualsUserDefined2 has an invalid format. The Date Format should be MM/dd/yyyy
ActualsUserDefined3 has more than 250 characters
ActualsUserDefined4 has more than 250 characters
ActualsUserDefined5 has more than 250 characters
ActualsUserDefined6 has more than 250 characters
Estimate resource code <code> is not available in this project

Integration Status

There are multiple ways to get the status associated with the Actuals API (generic) API, depending on the issue or how a customer wants to view the status of the integration.

- Results are available through the import history screen, which includes error messaging in a downloadable file.
- A customer can send a URI within the header of the JSON, the variable X-TaskCompleteCallbackURI sends the results back to that provided URI. The results include the project, status, and any reasons for failure.
- A location field is available in the results in the response header.

Sample:

Location <https://qa.hds.ineight.com/ExternalSystem//Messages/Status?messageId=772d849e-4739-4e34-9467-0da05b9434e0>

A system must be able to go to that URI and see if the API was successful or failed.

Sample:

Success

```
{
  "Status": "Success",
  "CorrelationID": "fd058d5f-d22f-4056-8c72-6c25265707f0",
  "ProjectDisplay": "103093",
  "ErrorDetails": []
}
```

Failure

```
{
  "Status": "Failed",
  "CorrelationID": "de068edb-b9ac-4281-8a08-7926ae2fe316",
  "ProjectDisplay": "GoldenSnapshot26072022180836",
  "ErrorDetails": [
    {
      "ErrorCode": 10014,
      "ErrorDescription": "In order to claim man hours 'Allow as built' value within Control must be set to 'All' or 'Cost'",
      "CostItemList": [
        {
          "Code": "1007"
        }
      ]
    }
  ]
}
```

Error Codes

10001	WBS phase code or CBS position code is required
10002	WBS Phase code in external system exceeds the maximum character limit of 50
10003	WBS phase code match not found

10004	CBS position code in external system exceeds the maximum character limit of 100
10005	CBS position code match not found
10006	Notes in external system exceeds the maximum character limit of 4000
10007	As-built lock value within Control must be False
10008	Quantities in external system must be a numeric value
10009	Quantity in external system exceeds the maximum character limit of 11 before decimal place
10010	In order to claim quantities 'Allow as built' value within Control must be set to 'All' or 'Quantity'
10011	In order to claim quantities 'Hide in plan and progress ' value within Control must be set to 'Checked'
10012	Man-hours in external system must be a numeric value
10013	Man-hours in external system exceeds the maximum character limit of 11 before decimal place
10014	In order to claim man hours 'Allow as built' value within Control must be set to 'All' or 'Cost'
10015	Equipment-hours in external system must be a numeric value
10016	Equipment hours in external system exceeds the maximum character limit of 11 before decimal place
10017	In order to claim equipment hours 'Allow as built' value within Control must be set to 'All' or 'Cost'
10018	In order to claim cost 'Allow as built' value within Control must be set to 'All' or 'Cost'
10019	Cost category in external system is required to claim cost
10020	Cost category in external system exceeds the maximum character limit of 50
10021	Cost Category match not found
10022	Cost in external system must be a numeric value
10023	Cost in external system exceeds the maximum character limit of 11 before decimal place
10024	Value exceeds character limit
10025	Posting date in external system must be equal to or less than today's date
10026	Posting date from external system is required
10027	Posting date in external system must be valid
10028	Posting date format within external system should be MM/DD/YYYY
10031	<field> has more than 250 characters
10032	Estimate resource code is not available in this project
10033	<field> is not formatted as a date (MM/DD/YYYY)
10034	Actual cost, manhours or quantity are required for an actual posting
10029	System Error. Kindly try again later

Cost Item (Generic) - Post (V1)

Direction	External system to the InEight cloud platform.	
Frequency	Varies based on the customer	
Trigger Methods	Triggered by external system	
Average Payload Size	The potential is hundreds to thousands of records. Details for all cost items within a project are sent.	
APIM Name	Upsert Cost Item	
InEight Control	Starting Version	23.8
	Ending Version	

Fields

Depth	Name	Type	Precision ¹	Parent	Req.
1	IncludedColumns	Array	N/A		No
1	ExcludedColumns	Array	N/A		No
1	CostItems	Array	N/A		No
2	CostItemDetails	Array	N/A	CostItems	No
3	Scale1	Decimal	11,11	CostItemDetails	No
3	Scale2	Decimal	11,11	CostItemDetails	No
3	Scale3	Decimal	11,11	CostItemDetails	No
3	TakeOffQuantity	Decimal	11,11	CostItemDetails	No
3	UnitofMeasure	String	50	CostItemDetails	No
3	SecondaryUnitofMeasure	String	50	CostItemDetails	No
3	Currency	String	10	CostItemDetails	No
3	DetailCostCategories	Array	N/A	CostItemDetails	No
4	Category	String	50	DetailCostCategories	No
4	Cost	Decimal	11,11	DetailCostCategories	No
4	IsActive	Boolean	N/A	DetailCostCategories	No
2	Accountcode	String	50	CostItems	No
2	PayItemSourceSystemId	String	50	CostItems	No
2	ProjectNumber ²	String	50	CostItems	Yes
2	SourceSystemId ²	String	50	CostItems	Yes
2	CBSPosition	String	50	CostItems	Yes/ No ⁴

Depth	Name	Type	Precision ¹	Parent	Req.
2	OptionalCode	String	50	CostItems	No
2	Description	String	250	CostItems	No
2	PhaseCode	String	50	CostItems	No
2	AsBuiltLock	String	50	CostItems	No
2	AllowAsBuilt	String	50	CostItems	No
2	IsTerminal	Boolean	N/A	CostItems	No
2	CostSource	String	50	CostItems	No
2	CostSegment	String	50	CostItems	No
2	QuantityDriver	String	50	CostItems	No
2	CostCurve	String	50	CostItems	No
2	HideInPlanProgress	String	10	CostItems	No
2	Rework	String	10	CostItems	No
2	Tag1	String	100	CostItems	No
2	Tag2	String	100	CostItems	No
2	Tag3	String	100	CostItems	No
2	Tag4	String	100	CostItems	No
2	Tag5	String	100	CostItems	No
2	Tag6	String	100	CostItems	No
2	Tag7	String	100	CostItems	No
2	Tag8	String	100	CostItems	No
2	Tag9	String	100	CostItems	No
2	Tag10	String	100	CostItems	No
2	Tag11	String	100	CostItems	No
2	Tag12	String	100	CostItems	No
2	Tag13	String	100	CostItems	No
2	Tag14	String	100	CostItems	No
2	Tag15	String	100	CostItems	No
2	Tag16	String	100	CostItems	No
2	Tag17	String	100	CostItems	No
2	Tag18	String	100	CostItems	No
2	Tag19	String	100	CostItems	No
2	Tag20	String	100	CostItems	No
2	Tag21	String	100	CostItems	No
2	Tag22	String	100	CostItems	No

Depth	Name	Type	Precision ¹	Parent	Req.
2	Tag23	String	100	CostItems	No
2	Tag24	String	100	CostItems	No
2	Tag25	String	100	CostItems	No
2	UserDefined1	String	250	CostItems	No
2	UserDefined2	String	250	CostItems	No
2	UserDefined3	String	250	CostItems	No
2	UserDefined4	String	250	CostItems	No
2	UserDefined5	String	250	CostItems	No
2	UserDefined6	String	250	CostItems	No
2	UserDefined7	String	250	CostItems	No
2	UserDefined8	String	250	CostItems	No
2	UserDefined9	String	250	CostItems	No
2	UserDefined10	String	250	CostItems	No
2	UserDefined11	String	250	CostItems	No
2	UserDefined12	String	250	CostItems	No
2	UserDefined13	String	250	CostItems	No
2	UserDefined14	String	250	CostItems	No
2	UserDefined15	String	250	CostItems	No
2	ContributePrimaryToPrimaryQuantity	Boolean	N/A	CostItems	No
2	ContributePrimaryToSecondaryQuantity	Boolean	N/A	CostItems	No
2	ContributeSecondaryToSecondaryQuantity	Boolean	N/A	CostItems	No
2	Segment1	String	250	CostItems	No
2	Segment2	String	250	CostItems	No
2	Segment3	String	250	CostItems	No
2	Segment4	String	250	CostItems	No
2	Scheduled	Boolean	N/A	CostItems	No
2	RollUpSchedule	Boolean	N/A	CostItems	No
2	Start ³	String	25	CostItems	No
2	Finish ³	String	25	CostItems	No
2	EarlyStart ³	String	25	CostItems	No
2	EarlyFinish ³	String	25	CostItems	No
2	LateStart ³	String	25	CostItems	No
2	LateFinish ³	String	25	CostItems	No
2	ActualStart ³	String	25	CostItems	No

Depth	Name	Type	Precision ¹	Parent	Req.
2	ActualFinish ³	String	25	CostItems	No
2	ScheduleId	String	50	CostItems	No
2	SchedulePlugDays	Boolean	N/A	CostItems	No
2	PlugDays	Decimal	11,11	CostItems	No
2	ScheduleWBS	Boolean	N/A	CostItems	No
2	SourceSystemName	String	50	CostItems	No
2	Notes	String	250	CostItems	No

1 – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 – Matching Key field.

3 – The data format for Date/Time fields is MM/DD/YYYY

4 – See NOTE in Field Descriptions section for additional field requirements information.

Field Descriptions

Name	Description	Example
Includedcolumns	An array of strings that allow a customer to specify only those fields to be read in the JSON. These strings must match the spelling and case of the field specified. If a list is provided here, the ExcludedColumns array cannot be populated.	UnitofMeasure
ExcludedColumns	An array of strings that allow a customer to specify fields that will not be read in the JSON. These strings must match the spelling, and case of the field specified. If a list is provided here, the Includedcolumns array cannot be populated.	TakeOffQuantity
CostItems	Array of cost items.	
CostItemDetails	Array of cost item details.	
Scale1	Scale1 of the cost item.	90
Scale2	Scale2 of the cost item.	5
Scale3	Scale3 of the cost item.	5
TakeOffQuantity	Forecast take off quantity of the cost item.	100
UnitofMeasure	Unit of measure of the cost item.	PLS
SecondaryUnitofMeasure	Secondary unit of measure of the cost item.	Ea
Currency	Currency of the cost item.	USD
DetailCostCategories	Array of Current estimate cost categories.	
Category	Cost Category of the amount for the cost item. This must match the source system ID of the cost category (see Appendix A).	Undefined Total

Name	Description	Example
Cost	Amount of current estimate cost for the cost category and cost item specified.	10000
IsActive	<i>Reserved for future use.</i>	
Accountcode	Account code on the cost item.	00.00
PayItemSourceSystemId	Pay item source system ID for the assignment of pay item to the cost item.	19000.1
ProjectNumber ¹	Project external ID for the cost items being updated or created.	19000
SourceSystemId ¹	External unique identifier of the cost item for updates of cost items this is the matching identifier.	19000.1000
CBSPosition	CBS position of the cost item, where it will be placed in the structure. NOTE: CBSPosition is required only when creating new cost items. When updating existing cost items, CBSPosition is not a required field.	1.1
OptionalCode	Free-form text field on the cost item.	Area 1
Description	Description of the cost item.	Description
PhaseCode	WBS phase code of the cost item. If this field is populated it must be unique for the project.	1000
AsBuiltLock	Field used to determine if the cost item is available for actual postings.	Locked
AllowAsBuilt	Field used to determine if the cost item is allowed for different types of actuals postings.	All
IsTerminal	Determines if the cost item is terminal or not.	True
CostSource	Cost source of a cost item.	Plug
CostSegment	Cost segment of a cost item.	Job Overhead
QuantityDriver	Quantity driver of a cost item.	Fixed
CostCurve	Cost curve of a cost item.	Linear
HideInPlanProgress	Hide in Plan and Progress applications of a cost item.	true
Rework	Rework attribute on the cost item.	true
Tag1	Open list field for Tag 1 of the cost item.	Validated list option
Tag2	Open list field for Tag 2 of the cost item.	Validated list option
Tag3	Open list field for Tag 3 of the cost item.	Validated list option
Tag4	Open list field for Tag 4 of the cost item.	Validated list option
Tag5	Open list field for Tag 5 of the cost item.	Validated list option
Tag6	Open list field for Tag 6 of the cost item.	Validated list option
Tag7	Open list field for Tag 7 of the cost item.	Validated list option
Tag8	Open list field for Tag 8 of the cost item.	Validated list option

Name	Description	Example
Tag9	Open list field for Tag 9 of the cost item.	Validated list option
Tag10	Open list field for Tag 10 of the cost item.	Validated list option
Tag11	Open list field for Tag 11 of the cost item.	Validated list option
Tag12	Open list field for Tag 12 of the cost item.	Validated list option
Tag13	Open list field for Tag 13 of the cost item.	Validated list option
Tag14	Open list field for Tag 14 of the cost item.	Validated list option
Tag15	Open list field for Tag 15 of the cost item.	Validated list option
Tag16	Open list field for Tag 16 of the cost item.	Validated list option
Tag17	Open list field for Tag 17 of the cost item.	Validated list option
Tag18	Open list field for Tag 18 of the cost item.	Validated list option
Tag19	Open list field for Tag 19 of the cost item.	Validated list option
Tag20	Open list field for Tag 20 of the cost item.	Validated list option
Tag21	Open list field for Tag 21 of the cost item.	Validated list option
Tag22	Open list field for Tag 22 of the cost item.	Validated list option
Tag23	Open list field for Tag 23 of the cost item.	Validated list option
Tag24	Open list field for Tag 24 of the cost item.	Validated list option
Tag25	Open list field for Tag 25 of the cost item.	Validated list option
UserDefined1	Free-form text field for User defined 1 of the cost item.	Free text
UserDefined2	Free-form text field for User defined 2 of the cost item.	Free text
UserDefined3	Free-form text field for User defined 3 of the cost item.	Free text
UserDefined4	Free-form text field for User defined 4 of the cost item.	Free text
UserDefined5	Free-form text field for User defined 5 of the cost item.	Free text
UserDefined6	Free-form text field for User defined 6 of the cost item.	Free text
UserDefined7	Free-form text field for User defined 7 of the cost item.	Free text
UserDefined8	Free-form text field for User defined 8 of the cost item.	Free text
UserDefined9	Free-form text field for User defined 9 of the cost item.	Free text
UserDefined10	Free-form text field for User defined 10 of the cost item.	Free text

Name	Description	Example
UserDefined11	Free-form text field for User defined 11 of the cost item.	Free text
UserDefined12	Free-form text field for User defined 12 of the cost item.	Free text
UserDefined13	Free-form text field for User defined 13 of the cost item.	Free text
UserDefined14	Free-form text field for User defined 14 of the cost item.	Free text
UserDefined15	Free-form text field for User defined 15 of the cost item.	Free text
ContributePrimaryToPrimaryQuantity	Cost item Contribute Primary to Primary Quantity indicator.	true
ContributePrimaryToSecondaryQuantity	Cost item Contribute Primary to Secondary Quantity indicator.	False
ContributeSecondaryToSecondaryQuantity	Cost item Contribute Secondary to Primary Quantity indicator.	False
Segment1	Free-form text field for Budget segment 1 of the cost item.	Free text
Segment2	Free-form text field for Budget segment 2 of the cost item.	Free text
Segment3	Free-form text field for Budget segment 3 of the cost item.	Free text
Segment4	Free-form text field for Budget segment 4 of the cost item.	Free text
Scheduled	Cost items Scheduled field.	False
RollUpSchedule	Cost items Roll Up Schedule field.	False
Start ²	Cost item Start Date.	11/30/2022
Finish ²	Cost item Finish Date.	02/02/2023
EarlyStart ²	Cost item Early Start.	11/30/2022
EarlyFinish ²	Cost item Early Finish.	02/02/2023
LateStart ²	Cost item Late Start.	12/30/2022
LateFinish ²	Cost item Late Finish.	03/02/2023
ActualStart ²	Cost item Actual Start.	11/30/2022
ActualFinish ²	Cost item Actual Finish.	02/02/2023
ScheduleId	Cost item Schedule ID.	True
SchedulePlugDays	Cost item Schedule Plug Days.	True
PlugDays	Cost item Plug Days.	5
ScheduleWBS	Cost item Schedule WBS.	False

Name	Description	Example
SourceSystemName	Cost item source system name.	ERP
Notes	Cost item Notes.	Note

Sample JSON

```
{
  "Includedcolumns": [],
  "ExcludedColumns": [],
  "CostItems":
  [
    {
      "CostItemDetails":
      {
        "Scale1": 10,
        "Scale2": 20,
        "Scale3": 70,
        "TakeOffQuantity": 1020,
        "UnitOfMeasure": "PLS",
        "SecondaryUnitOfMeasure": "PLS",
        "Currency": "USD",
        "DetailCostCategories": [
          {
            "Category": "Labor",
            "Cost": 100,
            "IsActive": true
          },
          {
            "Category": "Supplies",
            "Cost": 150,
            "IsActive": true
          }
        ]
      }
    },
    {
      "AccountCode": "00",
      "PayItemSourceSystemId": "",
      "ProjectNumber": "190009",
      "SourceSystemId": "190009.5",
      "CBSPosition": "1",
      "OptionalCode": "ZYG",
      "Description": "3",
      "PhaseCode": "6",
      "AsBuiltLock": "Locked",
      "AllowAsBuilt": "All",
      "IsTerminal": true,
      "CostSource": "Plug",
      "CostSegment": "Job Overhead",
      "QuantityDriver": "Fixed",
      "CostCurve": "Bell Shaped",
      "HideinPlanProgress": "true",
      "Rework": "true",
      "Tag1": "",
      "Tag2": "",
      "Tag3": ""
    }
  ]
}
```

```

"Tag4": "",
"Tag5": "",
"Tag6": "",
"Tag7": "",
"Tag8": "",
"Tag9": "",
"Tag10": "",
"Tag11": "",
"Tag12": "",
"Tag13": "",
"Tag14": "",
"Tag15": "",
"Tag16": "",
"Tag17": "",
"Tag18": "",
"Tag19": "",
"Tag20": "",
"Tag21": "",
"Tag22": "",
"Tag23": "",
"Tag24": "",
"Tag25": "",
"UserDefined1": "UDF 1",
"UserDefined2": "UDF 2",
"UserDefined3": "UDF 3",
"UserDefined4": "UDF 4",
"UserDefined5": "UDF 5",
"UserDefined6": "UDF 6",
"UserDefined7": "UDF 7",
"UserDefined8": "UDF 8",
"UserDefined9": "UDF 9",
"UserDefined10": "UDF 10",
"UserDefined11": "UDF 11",
"UserDefined12": "UDF 12",
"UserDefined13": "UDF 13",
"UserDefined14": "UDF 14",
"UserDefined15": "UDF 15",
"ContributePrimaryToPrimaryQuantity": false,
"ContributePrimaryToSecondaryQuantity": false,
"ContributeSecondaryToSecondaryQuantity": false,
"Segment1": "1",
"Segment2": "2",
"Segment3": "3",
"Segment4": "4",
"Scheduled": true,
"RollUpSchedule": true,
"Start": "02/01/2020",
"Finish": "12/20/2023",
"EarlyStart": "01/01/2020",
"EarlyFinish": "10/20/2021",
"LateStart": "02/09/2023",
"LateFinish": "10/20/2025",
"ActualStart": "01/20/2022",
"ActualFinish": "12/25/2023",
"ScheduleId": "1",
"SchedulePlugDays": true,
"PlugDays": 5,

```

```

        "ScheduleWbs": "true",
        "SourceSystemName": "",
        "Notes": "A"
    }
]
}

```

Summary

This integration includes an option that can be sent in the header of the JSON submitted as X-ExcludeSummary. If the header field X-ExcludeSummary value is *True*, then summary calculations will not be completed in the JSON that is sent. Examples of fields that would not have the summary calculations are Forecast take off quantity, CE total cost, CE total manhours, and other such fields that are numeric.

Integration Status

There are multiple ways to get the status associated with the Cost Item (Generic) (V1) API, depending on the issue or how the customer wants to view the status of the integration.

- Results are available through the import history screen, which includes error messaging in a downloadable file.
- A location field is available in the results in the response header.

Sample

Location <https://qa.hds.ineight.com/ExternalSystem//Messages/Status?messageId=772d849e-4739-4e34-9467-0da05b9434e0>

Sample

Success

```

{
  "Status": "Success",
  "CorrelationID": "fd058d5f-d22f-4056-8c72-6c25265707f0",
  "ProjectDisplay": "190001",
  "ErrorDetails": []
}

```

Failure

```

{
  "Status": "Failed",
  "CorrelationID": "de068edb-b9ac-4281-8a08-7926ae2fe316",
  "ProjectDisplay": "190001",
  "ErrorDetails": [
    {
      "ErrorCode": 10029,
      "ErrorDescription": "Import Failed due to Validation.",
      "CostItemList": [
        {
          "Code": "1007"
        }
      ]
    }
  ]
}

```

```
    ]  
  }  
  ]  
}
```

Error Codes

10029	Import Failed due to Validation
-------	---------------------------------

Cost Item (Generic) – Post (V0)

IMPORTANT: This is a legacy API that will be deprecated in a future release therefore, all new implementations need to utilize the [Cost Item \(Generic\) – Post \(V1\) API](#).

NOTE: Sections of this integration endpoint are forward-looking and expose data fields related to budgets, which are not currently supported through an integration process.

Direction	To the InEight cloud platform.	
Frequency	Infrequent. Large update when a new Project is added, and incremental adjustments on a periodic basis (< 10 per month). Multiple updates monthly with thousands of records each time.	
Trigger Methods	Determined by external system.	
Average Payload Size	Entire entity – thousands of records Entity delta – thousands of records Recommended: <ul style="list-style-type: none"> • No more than 5000 cost items per batch. • Group entries, do not send individual cost items in a payload. 	
APIM Name	Upsert Cost Item	
InEight Control	Starting Version	18.2
	Ending Version	

Fields

NOTE: Some of the fields in this marked NA in the field description and other columns appear in the JSON schema for the API but are only usable in a specific context that is not available for standard integration use cases. These fields should be ignored for any purpose other than understanding the full JSON schema.

Depth	Name	Type	Precision ¹	Parent	Req.
1	ObjId	String	36		No
1	ParentObjId	String	36		No
1	CbCostItemDetails	Array	NA	NA	Note ⁴
2	CEDetailCostCategories	NA	NA	NA	NA
3	SourceSystemId	NA	NA	NA	NA
3	Category	NA	NA	NA	NA
3	Cost	NA	NA	NA	NA
3	CostItemGroup	NA	NA	NA	NA
2	CBDetailCostCategories	NA	NA	NA	NA

Depth	Name	Type	Precision ¹	Parent	Req.
3	SourceSystemId	NA	NA	NA	NA
3	Category	NA	NA	NA	NA
3	Cost	NA	NA	NA	NA
3	CostItemGroup	NA	NA	NA	NA
2	OBDetailCostCategories	NA	NA	NA	NA
3	SourceSystemId	NA	NA	NA	NA
3	Category	NA	NA	NA	NA
3	Cost	NA	NA	NA	NA
3	CostItemGroup	NA	NA	NA	NA
2	SourceSystemId	NA	NA	NA	NA
2	CostItemGroup	String	2	cbCostItemDetails	Note ⁴
2	ManHoursDurationDriven	NA	NA	NA	NA
2	ManHoursNonDurationDriven	NA	NA	NA	NA
2	ManHoursMaintenance	NA	NA	NA	NA
2	ShiftsDurationDriven	NA	NA	NA	NA
2	ShiftsNonDurationDriven	NA	NA	NA	NA
2	ManCount	NA	NA	NA	NA
2	Scale1	NA	NA	NA	NA
2	Scale2	NA	NA	NA	NA
2	Scale3	NA	NA	NA	NA
2	WorkHoursRules	NA	NA	NA	NA
2	Quantity	NA	NA	NA	NA
2	SecondaryQuantity	NA	NA	NA	NA
2	ManHours	NA	NA	NA	NA
2	TakeOffQuantity	NA	NA	NA	NA
2	UnitOfMeasure	String	250	CbCostItemDetails	Note ⁴
2	SecondaryUnitOfMeasure	NA	NA	NA	NA
2	Currency	NA	NA	NA	NA
2	Notes	NA	NA	NA	NA
2	EquipHours	NA	NA	NA	NA
2	EquipHoursQuantity	NA	NA	NA	NA
1	CeCostItemDetails	Array	NA	NA	NA
2	CEDetailCostCategories	Array	NA	CeCostItemDetails	NA
3	SourceSystemId	String	50	CEDetailCostCategories	Yes

Depth	Name	Type	Precision ¹	Parent	Req.
3	Category	String	250	CEDetailCostCategories	Yes
3	Cost	Number	22,11	CEDetailCostCategories	Yes
3	CostItemGroup	String	50	CEDetailCostCategories	Yes
2	CBDetailCostCategories	NA	NA	NA	NA
3	SourceSystemId	NA	NA	NA	NA
3	Category	NA	NA	NA	NA
3	Cost	NA	NA	NA	NA
3	CostItemGroup	NA	NA	NA	NA
2	OBDetailCostCategories	NA	NA	NA	NA
3	SourceSystemId	NA	NA	NA	NA
3	Category	NA	NA	NA	NA
3	Cost	NA	NA	NA	NA
3	CostItemGroup	NA	NA	NA	NA
2	SourceSystemId	String	50	CeCostItemDetails	Yes
2	CostItemGroup	String	50	CeCostItemDetails	No
2	ManHoursDurationDriven	Number	22,11	CeCostItemDetails	No
2	ManHoursNonDurationDriven	Number	22,11	CeCostItemDetails	No
2	ManHoursMaintenance	NA	NA	NA	NA
2	ShiftsDurationDriven	Number	22,11	CeCostItemDetails	No
2	ShiftsNonDurationDriven	Number	22,11	CeCostItemDetails	No
2	ManCount	Number	10,0	CeCostItemDetails	No
2	Scale1	Number	22,11	CeCostItemDetails	No
2	Scale2	Number	22,11	CeCostItemDetails	No
2	Scale3	Number	22,11	CeCostItemDetails	No
2	WorkHoursRules	Number	22,11	CeCostItemDetails	No
2	Quantity	Number	22,11	CeCostItemDetails	No
2	SecondaryQuantity	Number	22,11	CeCostItemDetails	No
2	ManHours	Number	22,11	CeCostItemDetails	No
2	TakeOffQuantity	Number	22,11	CeCostItemDetails	No
2	UnitOfMeasure	String	10	CeCostItemDetails	Yes
2	SecondaryUnitOfMeasure	String	10	CeCostItemDetails	No
2	Currency	String	10	CeCostItemDetails	Yes
2	Notes	String	4000	CeCostItemDetails	No
2	EquipHours	Number	22,11	CeCostItemDetails	No

Depth	Name	Type	Precision ¹	Parent	Req.
2	EquipHoursQuantity	Number	22,11	CeCostItemDetails	No
1	ObCostItemDetails	NA	NA	NA	NA
2	CEDetailCostCategories	NA	NA	NA	NA
3	SourceSystemId	NA	NA	NA	NA
3	Category	NA	NA	NA	NA
3	Cost	NA	NA	NA	NA
3	CostItemGroup	NA	NA	NA	NA
2	CBDetailCostCategories	NA	NA	NA	NA
3	SourceSystemId	NA	NA	NA	NA
3	Category	NA	NA	NA	NA
3	Cost	NA	NA	NA	NA
3	CostItemGroup	NA	NA	NA	NA
2	OBDetailCostCategories	NA	NA	NA	NA
3	SourceSystemId	NA	NA	NA	NA
3	Category	NA	NA	NA	NA
3	Cost	NA	NA	NA	NA
3	CostItemGroup	NA	NA	NA	NA
2	SourceSystemId	NA	NA	NA	NA
2	CostItemGroup	String	2	ObCostItemDetails	Note ⁴
2	ManHoursDurationDriven	NA	NA	NA	NA
2	ManHoursNonDurationDriven	NA	NA	NA	NA
2	ManHoursMaintenance	NA	NA	NA	NA
2	ShiftsDurationDriven	NA	NA	NA	NA
2	ShiftsNonDurationDriven	NA	NA	NA	NA
2	ManCount	NA	NA	NA	NA
2	Scale1	NA	NA	NA	NA
2	Scale2	NA	NA	NA	NA
2	Scale3	NA	NA	NA	NA
2	WorkHoursRules	NA	NA	NA	NA
2	Quantity	NA	NA	NA	NA
2	SecondaryQuantity	NA	NA	NA	NA
2	ManHours	NA	NA	NA	NA
2	TakeOffQuantity	NA	NA	NA	NA
2	UnitOfMeasure	String	250	ObCostItemDetails	Note ⁴

Depth	Name	Type	Precision ¹	Parent	Req.
2	SecondaryUnitOfMeasure	NA	NA	NA	NA
2	Currency	NA	NA	NA	NA
2	Notes	NA	NA	NA	NA
2	EquipHours	NA	NA	NA	NA
2	EquipHoursQuantity	NA	NA	NA	NA
1	AccountCode	String	50		No
1	PayItemSourceSystemId	String	50		No
1	ProjectNumber	String	50		Yes
1	SourceSystemId ²	String	50		Yes
1	CBSPosition	String	50		Yes
1	OptionalCode	NA	NA		NA
1	Description	String	50		Yes
1	PhaseCode	String	50		Yes
1	CurrencyCode	String	10		Yes
1	ScheduleId	String	50		No
1	SchedulePlugDays	Boolean	NA		No
1	PlugDays	NA	NA		NA
1	ScheduleWbs	Boolean	NA		No
1	IsTerminal	Boolean	NA		Yes
1	PlannedQuantity	Number	22,11		No
1	WorkHoursPerShift	Number	22,11		No
1	Scale1	Number	22,11		No
1	Scale2	Number	22,11		No
1	Scale3	Number	22,11		No
1	WorkHoursRules	Number	22,11		No
1	Start ³	String	25		No
1	Finish ³	String	25		No
1	CostSource	String	50		No
1	CostSegment	String	50		No
1	QuantityDriver	String	50		No
1	CostCurve	String	50		No
1	QuoteGroup	String	50		No
1	Area	String	50		No
1	WorkType	String	50		No

Depth	Name	Type	Precision ¹	Parent	Req.
1	Estimator	String	50		No
1	EstimateTag1	String	50		No
1	EstimateTag2	String	50		No
1	D_Group	String	50		No
1	Tag8	String	50		No
1	RiskLevel	String	50		No
1	IssueNumber	String	50		No
1	CCO	String	50		No
1	SAPStatusControl	String	50		No
1	WBSClientCode1	String	50		No
1	WBSClientCode2	String	50		No
1	Rework	String	50		No
1	DistrictSpecificTag16	String	50		No
1	Tag17	String	50		No
1	Tag18	String	50		No
1	DistrictSpecificTag19	String	50		No
1	Tag21	String	50		No
1	Tag22	String	50		No
1	Tag23	String	50		No
1	Tag24	String	50		No
1	Tag25	String	50		No
1	RiskDescription	String	50		No
1	Superintendent	String	50		No
1	DistrictSpecificUserDefined3	String	50		No
1	UserDefined4	String	50		No
1	UserDefined5	String	50		No
1	UserDefined6	String	50		No
1	UserDefined7	String	50		No
1	UserDefined8	String	50		No
1	WorkPlanId	String	50		No
1	HideInProgress	Boolean	NA		Yes
1	UserDefined11	String	50		No
1	UserDefined12	String	50		No
1	UserDefined13	String	50		No

Depth	Name	Type	Precision ¹	Parent	Req.
1	UserDefined14	String	50		No
1	UserDefined15	String	50		No
1	DataSource	String	50		No
1	ReferenceNumber	String	50		No
1	AllowAsBuiltChoice	String	50		No
1	QuantityCheck	Boolean	NA		No
1	QuantityWarning	Boolean	NA		No
1	Suspend	Boolean	NA		No
1	SourceSystemName	String	50		No
1	IsActive	Boolean	NA		Yes
1	ExternalSystemConfirmation	Number	10,0		Yes
1	ContributePrimaryToPrimaryQuantity	Boolean	NA		No
1	ContributePrimaryToSecondaryQuantity	Boolean	NA		No
1	ContributeSecondaryToSecondaryQuantity	Boolean	NA		No
1	Segment1	String	50		No
1	Segment2	String	50		No
1	Segment3	String	50		No
1	Segment4	String	50		No
1	Tag12	String	50		No
1	UserDefined10	String	50		No

1 – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 – Natural Key field.

3 – The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000

4 – See Field Description to determine if this field is required.

Field Descriptions

NOTE:

Fields names with an asterisk (*) are validated against a customer-defined list of allowed values for the field within the project. If the value provided in the integration cannot be validated, the provided value is ignored.

Name	Description	Example
CbCostItemDetails	If your business model includes locking your budget to see real budget values populated within Control, include this array and those fields not marked as Not Applicable within the JSON. If your business process does not include Locking your budget, this entire array can be ignored.	
CEDetailCostCategories	<i>Not used. Reserved for future functionality.</i>	Not applicable
SourceSystemId	<i>Not used. Reserved for future functionality.</i>	Not applicable
Category	<i>Not used. Reserved for future functionality.</i>	Not applicable
Cost	<i>Not used. Reserved for future functionality.</i>	Not applicable
CostItemGroup	<i>Not used. Reserved for future functionality.</i>	Not applicable
CBDetailCostCategories	<i>Not used. Reserved for future functionality.</i>	Not applicable
SourceSystemId	<i>Not used. Reserved for future functionality.</i>	Not applicable
Category	<i>Not used. Reserved for future functionality.</i>	Not applicable
Cost	<i>Not used. Reserved for future functionality.</i>	Not applicable
CostItemGroup	<i>Not used. Reserved for future functionality.</i>	Not applicable
OBDetailCostCategories	<i>Not used. Reserved for future functionality.</i>	Not applicable
SourceSystemId	<i>Not used. Reserved for future functionality.</i>	Not applicable
Category	<i>Not used. Reserved for future functionality.</i>	Not applicable
Cost	<i>Not used. Reserved for future functionality.</i>	Not applicable
CostItemGroup	<i>Not used. Reserved for future functionality.</i>	Not applicable
SourceSystemId	<i>Not used. Reserved for future functionality.</i>	Not applicable
CostItemGroup	If your business model includes locking your budget to see real budget values populated within Control, send a value of CB to indicate a Current Budget. If your business process does not include locking your budget, this field can be ignored. Always send a value of CB to indicate Current Budget.	CB
ManHoursDurationDriven	<i>Not used. Reserved for future functionality.</i>	Not applicable
ManHoursNonDurationDriven	<i>Not used. Reserved for future functionality.</i>	Not applicable
ManHoursMaintenance	<i>Not used. Reserved for future functionality.</i>	Not applicable
ShiftsDurationDriven	<i>Not used. Reserved for future functionality.</i>	Not applicable
ShiftsNonDurationDriven	<i>Not used. Reserved for future functionality.</i>	Not applicable
ManCount	<i>Not used. Reserved for future functionality.</i>	Not applicable
Scale1	<i>Not used. Reserved for future functionality.</i>	Not applicable
Scale2	<i>Not used. Reserved for future functionality.</i>	Not applicable
Scale3	<i>Not used. Reserved for future functionality.</i>	Not applicable

Name	Description	Example
WorkHoursRules	<i>Not used. Reserved for future functionality.</i>	Not applicable
Quantity	<i>Not used. Reserved for future functionality.</i>	Not applicable
SecondaryQuantity	<i>Not used. Reserved for future functionality.</i>	Not applicable
ManHours	<i>Not used. Reserved for future functionality.</i>	Not applicable
TakeOffQuantity	<i>Not used. Reserved for future functionality.</i>	Not applicable
UnitOfMeasure	<p>If your business model includes locking your budget to see real budget values populated within Control, send the applicable unit of measure name for the cost item being referenced. If your business process does not include locking your budget, this field can be ignored.</p> <p>The value sent in this field must match a valid Unit of Measure Name that exists within InEight.</p>	PLS
SecondaryUnitOfMeasure	<i>Not used. Reserved for future functionality.</i>	Not applicable
Currency	<i>Not used. Reserved for future functionality.</i>	Not applicable
Notes	<i>Not used. Reserved for future functionality.</i>	Not applicable
EquipHours	<i>Not used. Reserved for future functionality.</i>	Not applicable
EquipHoursQuantity	<i>Not used. Reserved for future functionality.</i>	Not applicable
CeCostItemDetails	Array header of Current Estimate of the cost item details.	NA
CEDetailCostCategories	Array header of how Current Estimate value of the cost item has been assigned across cost categories.	NA
SourceSystemId	Unique identifier of Current Estimate cost category.	8390fb998f5d425b89b4bce9819a36b9
Category	Current Estimate cost category.	Undefined Labor
Cost	Current Estimate cost.	3752.17
CostItemGroup	Current Estimate cost item group.	CE
CBDetailCostCategories	<i>Not used. Reserved for future functionality.</i>	Not applicable
SourceSystemId	<i>Not used. Reserved for future functionality.</i>	Not applicable
Category	<i>Not used. Reserved for future functionality.</i>	Not applicable
Cost	<i>Not used. Reserved for future functionality.</i>	Not applicable
CostItemGroup	<i>Not used. Reserved for future functionality.</i>	Not applicable
OBDetailCostCategories	<i>Not used. Reserved for future functionality.</i>	Not applicable
SourceSystemId	<i>Not used. Reserved for future functionality.</i>	Not applicable
Category	<i>Not used. Reserved for future functionality.</i>	Not applicable
Cost	<i>Not used. Reserved for future functionality.</i>	Not applicable
CostItemGroup	<i>Not used. Reserved for future functionality.</i>	Not applicable

Name	Description	Example
SourceSystemId	Unique identifier of Current Estimate cost category.	6390fb998f5d425b89b4bce9819a36b9
CostItemGroup	Current Estimate cost item group.	CE
ManHoursDurationDriven	Current Estimate man-hours.	50.0
ManHoursNonDurationDriven	Current Estimate man-hours non-duration.	50.0
ManHoursMaintenance	<i>Not used. Reserved for future functionality.</i>	Not applicable
ShiftsDurationDriven	Current Estimate shift duration driven.	50.0
ShiftsNonDurationDriven	Current Estimate shift non-duration driven.	50.0
ManCount	Current Estimate man-hours.	50
Scale1	Current Estimate scale one.	70
Scale2	Current Estimate scale two.	20
Scale3	Current Estimate scale three.	10
WorkHoursRules	Current Estimate work hours rules.	0.0
Quantity	Current Estimate quantity.	225.0
SecondaryQuantity	Current Estimate secondary quantity.	0.0
ManHours	Current Estimate man-hours.	50.0
TakeOffQuantity	Current Estimate takeoff quantity.	1.0
UnitOfMeasure	Current Estimate unit of measurement.	LF
SecondaryUnitOfMeasure	Current Estimate secondary unit of measurement.	PLS
Currency	Current Estimate currency.	USD
Notes	Current Estimate notes entered by user.	Sample Notes
EquipHours	Current Estimate equipment hours.	0.0
EquipHoursQuantity	Current Estimate equipment hours quantity.	0.0
ObCostItemDetails	If your business model includes locking your original budget to see real budget values populated within Control, include this array and the fields not marked as Not Applicable within the JSON. If your business process does not include locking your original budget, this entire array can be ignored.	
CEDetailCostCategories	<i>Not used. Reserved for future functionality.</i>	Not applicable
SourceSystemId	<i>Not used. Reserved for future functionality.</i>	Not applicable
Category	<i>Not used. Reserved for future functionality.</i>	Not applicable
Cost	<i>Not used. Reserved for future functionality.</i>	Not applicable
CostItemGroup	<i>Not used. Reserved for future functionality.</i>	Not applicable
CBDetailCostCategories	<i>Not used. Reserved for future functionality.</i>	Not applicable
SourceSystemId	<i>Not used. Reserved for future functionality.</i>	Not applicable

Name	Description	Example
Category	<i>Not used. Reserved for future functionality.</i>	Not applicable
Cost	<i>Not used. Reserved for future functionality.</i>	Not applicable
CostItemGroup	<i>Not used. Reserved for future functionality.</i>	Not applicable
OBDetailCostCategories	<i>Not used. Reserved for future functionality.</i>	Not applicable
SourceSystemId	<i>Not used. Reserved for future functionality.</i>	Not applicable
Category	<i>Not used. Reserved for future functionality.</i>	Not applicable
Cost	<i>Not used. Reserved for future functionality.</i>	Not applicable
CostItemGroup	<i>Not used. Reserved for future functionality.</i>	Not applicable
SourceSystemId	<i>Not used. Reserved for future functionality.</i>	Not applicable
CostItemGroup	If your business model includes locking your original budget to see real budget values populated within Control, send a value of "OB" to indicate an Original Budget. If your business process does not include locking your original budget, this field can be ignored. Always send a value of OB to indicate Original Budget	OB
ManHoursDurationDriven	<i>Not used. Reserved for future functionality.</i>	Not applicable
ManHoursNonDurationDriven	<i>Not used. Reserved for future functionality.</i>	Not applicable
ManHoursMaintenance	<i>Not used. Reserved for future functionality.</i>	Not applicable
ShiftsDurationDriven	<i>Not used. Reserved for future functionality.</i>	Not applicable
ShiftsNonDurationDriven	<i>Not used. Reserved for future functionality.</i>	Not applicable
ManCount	<i>Not used. Reserved for future functionality.</i>	Not applicable
Scale1	<i>Not used. Reserved for future functionality.</i>	Not applicable
Scale2	<i>Not used. Reserved for future functionality.</i>	Not applicable
Scale3	<i>Not used. Reserved for future functionality.</i>	Not applicable
WorkHoursRules	<i>Not used. Reserved for future functionality.</i>	Not applicable
Quantity	<i>Not used. Reserved for future functionality.</i>	Not applicable
SecondaryQuantity	<i>Not used. Reserved for future functionality.</i>	Not applicable
ManHours	<i>Not used. Reserved for future functionality.</i>	Not applicable
TakeOffQuantity	<i>Not used. Reserved for future functionality.</i>	Not applicable
UnitOfMeasure	If your business model includes locking your original budget to see real budget values populated within Control, send the applicable Unit of Measure Name for the Cost Item being referenced. If your business process does not include locking your original budget, this field can be ignored. The value sent in this field must match a valid Unit of Measure Name that exists within InEight.	PLS
SecondaryUnitOfMeasure	<i>Not used. Reserved for future functionality.</i>	Not applicable

Name	Description	Example
Currency	<i>Not used. Reserved for future functionality.</i>	Not applicable
Notes	<i>Not used. Reserved for future functionality.</i>	Not applicable
EquipHours	<i>Not used. Reserved for future functionality.</i>	Not applicable
EquipHoursQuantity	<i>Not used. Reserved for future functionality.</i>	Not applicable
AccountCode	Account code value provided in this field must match a valid account code in the Master Data.	50.03.16.000.04
PayItemSourceSystemId	Pay item sources system ID	223421943
ProjectNumber	External project ID of the project.	IngleStad
SourceSystemId	Unique identifier created by the system of record used as the primary method of specifying a unique record.	1390fb998f5d425b89b4bce9819a36b9
CBSPosition	Cost item position	1.1.1.1.1.2
OptionalCode	<i>Not used. Reserved for future functionality.</i>	Not applicable
Description	Cost item description	Remove Chain Link Fence
PhaseCode	Cost items phase code	1216
CurrencyCode	Currency code for the cost item Detail	CAD
ScheduleId	Schedule ID for external system	HD.0000197
SchedulePlugDays	Scheduled plug days or not	true
PlugDays	<i>Not used. Reserved for future functionality.</i>	Not applicable
ScheduleWbs	Scheduled WBS or not	false
IsTerminal	Is terminal cost items status	true
PlannedQuantity	Planned Quantity	0.0
WorkHoursPerShift	Work hours	8.0
Scale1	Cost items scale info	100.0
Scale2	Cost items scale2 info	0.0
Scale3	Cost items scale3 info	0.0
WorkHoursRules	Work hours	8.0
Start	Schedule start day	0001-01-01T00:00:00+00:00
Finish	Schedule finish day	0001-01-01T00:00:00+00:00
CostSource	Cost sources	Detail
CostSegment	Cost segments	Job Overhead
QuantityDriver	Quantity drivers	Superior CI
CostCurve	Cost Curve	Linear

Name	Description	Example
QuoteGroup*	Quote group	16602-Panelboards
Area*	Tag Area	Get/Build Work Functional
WorkType*	Work Type	Eastern District Owned
Estimator*	Estimator Name	TBD2
EstimateTag1*	Estimator Tag 1	002-Mechanical & Electrical Demolition
EstimateTag2*	Estimator Tag 2	005-Bush/Prep Concrete
D_Group*	Discipline Group	050- Removals & Demolition
Tag8*	Open list field	NO REAL LABOR
RiskLevel*	Risk level	Low
IssueNumber*	Issue number	0100
CCO*	Status of a Contract Change Order	Executed
SAPStatusControl*	Determines if the cost item is locked for further claiming of actuals with the possible values of true or false. (This reflects the field in the UI of As-built lock.)	True
WBSClientCode1*	WBS Client Code 1	PHASE 1
WBSClientCode2*	WBS Client Code 2	PHASE 2
Rework*	Determines if the cost item represents rework. The possible values are Yes or No.	Yes
DistrictSpecificTag16*	Open list field	CH/TB
Tag17*	Open list field	Project Controls
Tag18*	Open list field	OneIM FTE
DistrictSpecificTag19*	Open list field	AG Electrical
Tag21*	Open list field	Temporary Excavation Support
Tag22*	Open list field	SBE Participation
Tag23*	Open list field	00 Template
Tag24*	Open list field	Earthworks Code
Tag25*	Open list field	Spread 3
RiskDescription	Risk description	Moderate
Superintendent	Superintendent name	SHIELDS
DistrictSpecificUserDefined3	Free-form text field.	Account Code Revision Sept 2015
UserDefined4	Free-form text field.	7.01.004 – Transmission Line Construction

Name	Description	Example
UserDefined5	Free-form text field.	6.LVA.15 Pile Driving
UserDefined6	Free-form text field.	6.LVA.16 Pumps
UserDefined7	Free-form text field.	6.LVA.11 Generators
UserDefined8	Free-form text field.	Unbilled Equipment
WorkPlanId	Work Plan ID	001
HideInProgress	Determines if the cost item is visible to InEight Plan and Progress applications and is used to prevent work planning against the cost item. Use true to hide the cost item from work planning or false to make visible.	False
UserDefined11	Free-form text field.	6.LVA.30 Survey
UserDefined12	Free-form text field.	6.LVA.31 Communication
UserDefined13	Free-form text field.	16200-600V 1/C Wire
UserDefined14	Free-form text field.	16207-Specialty Cable
UserDefined15	Free-form text field.	16200-600V 1/C Wire
DataSource	Name of the external system that is using the integration. Collaborate with InEight to identify a specific value to use in this field.	HD
ReferenceNumber	Reference Number	AB001572
AllowAsBuiltChoice	Allow As-Built values for quantity claiming.	All
QuantityCheck	Quantity Check	false
QuantityWarning	Quantity Warning	false
Suspend	Suspend status	false
SourceSystemName	Name of the external system that is using the integration. Work with InEight to provision a unique value for this field.	D365
IsActive	Sending a value of <i>False</i> in this field causes the record to be soft deleted from the InEight cloud platform. If a value is not provided, the default value <i>True</i> is used.	True
ExternalSystemConfirmation	Used to identify if the imported cost item is confirmed as part of the Confirmation workflow. The possible values are: <ul style="list-style-type: none"> Confirmed Pending Confirmation Pending, will be auto-confirmed subsequently 	1
ContributePrimaryToPrimaryQuantity	Determines if the cost item contributes its Primary Quantity to its parent cost item's Primary Quantity when calculating rolled up values.	True

Name	Description	Example
ContributePrimaryToSecondaryQuantity	Determines whether the cost item contributes its Primary Quantity to its parent cost item's Secondary Quantity when calculating rolled up values.	False
ContributeSecondaryToSecondaryQuantity	Determines whether the cost item contributes its Secondary Quantity to its parent cost item's Secondary Quantity when calculating rolled up values.	True
Segment1	Configurable based on the organization setting of budget segment to what this field represents.	varies
Segment2	Configurable based on the organization setting of budget segment to what this field represents.	varies
Segment3	Configurable based on the organization setting of budget segment to what this field represents.	varies
Segment4	Configurable based on the organization setting of budget segment to what this field represents.	varies
Tag12*	Free-form text field	Free text
UserDefined10	Free-form text field	Free text

Exclude Summary

This integration includes an option that can be sent in the header of the JSON submitted as X-ExcludeSummary. If in the header field X-ExcludeSummary value is *True*, then summary calculations will not be completed in the JSON that is sent. Examples of fields that would not have the summary calculations are Forecast take off quantity, CE total cost, CE total manhours, and other such fields that are numeric.

Integration Status

There are multiple ways to get the status associated with the Cost Item API, depending on the issue or how the customer wants to view the status of the integration.

- Results are available through the import history, which includes error messaging in a downloadable file.
- Sending a URL within the header of the JSON the variable X-TaskCompleteCallbackURI sends the results back to that provided URL. The results include the project, status, and any reasons for failure.
- Results can be retrieved from the standard API request message as shown in the table below.

API/Entity Logic	Condition	Code	Message
API validation	Project Number provided does not exist.	400	Project Number [Project Number] is not available
API Validation	Empty payload	400	"Project Number is not available", "FieldName": "Project Number"
API validation	Payload has more than one record with the same Project Number.	400	More than one ProjectNumber is provided in Payload.

API/Entity Logic	Condition	Code	Message
API Validation	Required Fields are not Provided. [Field Name] options are: <ul style="list-style-type: none"> • AllowAsBuiltChoice • QuantityDriver • CostSegment • CostSource • CBSPosition 	400	"Project: [Project Number], Phase Code: [Phase Code] has Invalid Value: (Value is not Provided)", "FieldName": "[Field Name]"
API Validation	Valid Payload	200	

Sample JSON

```

{
  "CostItem": {
    "CbCostItemDetails": [{
      "CEDetailCostCategories": [],
      "CBDetailCostCategories": [{
        "SourceSystemId": "8390fb998f5d425b89b4bce9819a36b9:30",
        "Category": "Undefined Labor",
        "Cost": 3752.17,
        "CostItemGroup": "CB"
      }],
      "OBDetailCostCategories": [],
      "SourceSystemId": "8390fb998f5d425b89b4bce9819a36b9",
      "CostItemGroup": "CB",
      "ManHoursDurationDriven": 50.0,
      "ManHoursNonDurationDriven": 0.0,
      "ManHoursMaintenance": 0.0,
      "ShiftsDurationDriven": 0.0,
      "ShiftsNonDurationDriven": 0.0,
      "ManCount": 0,
      "Scale1": 0.0,
      "Scale2": 0.0,
      "Scale3": 0.0,
      "WorkHoursRules": 0.0,
      "Quantity": 225.0,
      "SecondaryQuantity": 0.0,
      "ManHours": 50.0,
      "TakeOffQuantity": 0.0,
      "UnitOfMeasure": "LF",
      "SecondaryUnitOfMeasure": "",
      "Currency": "USD",
      "Notes": "",
      "EquipHours": 0.0,
      "EquipHoursQuantity": 0.0
    }],
    "CeCostItemDetails": [{
      "CEDetailCostCategories": [{
        "SourceSystemId": "8390fb998f5d425b89b4bce9819a36b9:30",
        "Category": "Undefined Labor",
        "Cost": 3752.17,
        "CostItemGroup": "CE"
      }],
      "CBDetailCostCategories": [],
    }],
  }
}
    
```

```

"OBDetailCostCategories": [],
"SourceSystemId": "8390fb998f5d425b89b4bce9819a36b9",
"CostItemGroup": "CE",
"ManHoursDurationDriven": 50.0,
"ManHoursNonDurationDriven": 0.0,
"ManHoursMaintenance": 0.0,
"ShiftsDurationDriven": 0.0,
"ShiftsNonDurationDriven": 0.0,
"ManCount": 0,
"Scale1": 0.0,
"Scale2": 0.0,
"Scale3": 0.0,
"WorkHoursRules": 0.0,
"Quantity": 0.0,
"SecondaryQuantity": 0.0,
"ManHours": 50.0,
"TakeOffQuantity": 225.0,
"UnitOfMeasure": "LF",
"SecondaryUnitOfMeasure": "",
"Currency": "USD",
"Notes": "",
"EquipHours": 0.0,
"EquipHoursQuantity": 0.0
],
"ObCostItemDetails": [{
  "CEDetailCostCategories": [],
  "CBDetailCostCategories": [],
  "OBDetailCostCategories": [{
    "SourceSystemId": "8390fb998f5d425b89b4bce9819a36b9:30",
    "Category": "Undefined Labor",
    "Cost": 3752.17,
    "CostItemGroup": "OB"
  }],
  "SourceSystemId": "8390fb998f5d425b89b4bce9819a36b9",
  "CostItemGroup": "OB",
  "ManHoursDurationDriven": 50.0,
  "ManHoursNonDurationDriven": 0.0,
  "ManHoursMaintenance": 0.0,
  "ShiftsDurationDriven": 0.0,
  "ShiftsNonDurationDriven": 0.0,
  "ManCount": 0,
  "Scale1": 0.0,
  "Scale2": 0.0,
  "Scale3": 0.0,
  "WorkHoursRules": 0.0,
  "Quantity": 225.0,
  "SecondaryQuantity": 0.0,
  "ManHours": 50.0,
  "TakeOffQuantity": 0.0,
  "UnitOfMeasure": "LF",
  "SecondaryUnitOfMeasure": "",
  "Currency": "USD",
  "Notes": "",
  "EquipHours": 0.0,
  "EquipHoursQuantity": 0.0
],
"AccountCode": "50.03.16.000.04",

```

```

"PayItemSourceSystemId": "00000000000000000000000000000000",
"ProjectNumber": "IngleStad",
"SourceSystemId": "8390fb998f5d425b89b4bce9819a36b9",
"CBSPosition": "1.1.1.1.1.2",
"OptionalCode": "",
"Description": "Remove Chain Link Fence",
"PhaseCode": "1216",
"CurrencyCode": "USD",
"ScheduleId": "HD.0000197",
"SchedulePlugDays": true,
"PlugDays": 2.05,
"ScheduleWbs": false,
"IsTerminal": true,
"PlannedQuantity": 0.0,
"WorkHoursPerShift": 8.0,
"Scale1": 0.0,
"Scale2": 0.0,
"Scale3": 0.0,
"WorkHoursRules": 8.0,
"Start": "0001-01-01T00:00:00+00:00",
"Finish": "0001-01-01T00:00:00+00:00",
"CostSource": "Detail",
"CostSegment": "Job Overhead",
"QuantityDriver": "Superior CI",
"CostCurve": "Linear",
"QuoteGroup": "",
"Area": "",
"WorkType": "",
"Estimator": "",
"EstimateTag1": "",
"EstimateTag2": "",
"D_Group": "050- Removals & Demolition",
"Tag8": "",
"RiskLevel": "",
"IssueNumber": "",
"CCO": "",
"SAPStatusControl": "",
"WBSClientCode1": "",
"WBSClientCode2": "",
"Rework": "",
"DistrictSpecificTag16": "",
"Tag17": "",
"Tag18": "",
"DistrictSpecificTag19": "",
"Tag21": "",
"Tag22": "",
"Tag23": "",
"Tag24": "",
"Tag25": "",
"RiskDescription": "",
"Superintendent": "SHIELDS",
"DistrictSpecificUserDefined3": "",
"UserDefined4": "",
"UserDefined5": "",
"UserDefined6": "",
"UserDefined7": "",
"UserDefined8": "Unbilled Equipment",

```

```
"WorkPlanId": "",
"HideInProgress": "",
"UserDefined11": "",
"UserDefined12": "",
"UserDefined13": "",
"UserDefined14": "",
"UserDefined15": "",
"DataSource": "",
"ReferenceNumber": "",
"AllowAsBuiltChoice": "All",
"QuantityCheck": false,
"QuantityWarning": false,
"Suspend": false,
"SourceSystemName": "ConformedBudget",
"IsActive": true,
"ExternalSystemConfirmation": 1,
"ContributePrimaryToPrimaryQuantity": true,
"ContributePrimaryToSecondaryQuantity": false,
"ContributeSecondaryToSecondaryQuantity": true,
"Segment1": "",
"Segment2": "",
"Segment3": "",
"Segment4": "",
"Tag12": "",
"UserDefined10": ""
}
}
```


Pay Items - Sync

Direction		From InEight Control
Frequency		On-demand from users of Control.
Trigger Methods		Manually triggered by user within Control UI.
Average Payload Size		Entire entity – Tens of thousands of records.
APIM Name		Not available through APIM.
InEight Control	Starting Version	19.1
	Ending Version	
<u>Configuration Entity Name</u>		Control: Pay Item

Fields

Depth	Name	Type	Precision ¹	Parent
1	PayItems	Array	NA	
2	PayItem	Array	NA	PayItems
3	BillingMethod	String	50	PayItem
3	ChangeOrderCount	Number	25	PayItem
3	Description	String	250	PayItem
3	ForecastTakeOffQuantity	Decimal	11,11	PayItem
3	IsBilled	Boolean	NA	PayItem
3	LineNumber	Number	Integer	PayItem
3	PayItemNumber	String	100	PayItem
3	PayItemTag1	String	255	PayItem
3	PayItemTag10	String	255	PayItem
3	PayItemTag2	String	255	PayItem
3	PayItemTag3	String	255	PayItem
3	PayItemTag4	String	255	PayItem
3	PayItemTag5	String	255	PayItem
3	PayItemTag6	String	255	PayItem
3	PayItemTag7	String	255	PayItem
3	PayItemTag8	String	255	PayItem
3	PayItemTag9	String	255	PayItem

Depth	Name	Type	Precision ¹	Parent
3	PayItemUserDefined1	String	250	PayItem
3	PayItemUserDefined10	String	250	PayItem
3	PayItemUserDefined2	String	250	PayItem
3	PayItemUserDefined3	String	250	PayItem
3	PayItemUserDefined4	String	250	PayItem
3	PayItemUserDefined5	String	250	PayItem
3	PayItemUserDefined6	String	250	PayItem
3	PayItemUserDefined7	String	250	PayItem
3	PayItemUserDefined8	String	250	PayItem
3	PayItemUserDefined9	String	250	PayItem
3	PayQuantity	Decimal	11,11	PayItem
3	ProjectDisplayNumber	String	50	PayItem
3	RowNumber	Number	Integer	PayItem
3	SalesOrder	String	250	PayItem
3	TotalPrice	Decimal	11,11	PayItem
3	UnitPrice	Decimal	11,11	PayItem
3	UOM	String	255	PayItem
3	SourceSystemId	String	150	PayItem
3	OriginalPrice	Decimal	11,11	PayItem
3	OriginalPayQuantity	Decimal	11,11	PayItem
3	OriginalUnitPrice	Decimal	11,11	PayItem
3	OriginalBillingMethod	String	50	PayItem
3	OriginalForecastTakeOffQuantity	Decimal	11,11	PayItem
3	IsPayItemLocked	Boolean	N/A	PayItem
3	PayItemPosition	String	100	PayItem
3	IsTerminal	Boolean	N/A	PayItem
3	RetainagePercentage	Decimal	11,11	PayItem
3	RetentionWithHeld	Decimal	11,11	PayItem
3	NetBilledRevenue	Decimal	11,11	PayItem
1	LogToken	String	50	

1 – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
PayItems	Array of pay items.	
PayItem	Array of the pay records. All fields within this array can be repeated for each pay item that has data.	
BillingMethod	Method in which the owner pays for the work. The value that appears in this field is from a standard list available in Control and represents a specific option chosen for the Pay Item record.	Fixed Final Price
ChangeOrderCount	Number of change orders that occurred on this pay item.	2
Description	Description of the pay item.	Pay Item 1
ForecastTakeOffQuantity	Quantity that is used to forecast how much quantity this pay item will take to complete.	1
IsBilled	Indicator if the pay item has been billed.	False
LineNumber	Line in the pay structure that will show.	1
PayItemNumber	Unique identifier of the pay item.	Pay Item 1
PayItemTag1	Customer/Project specific list of options to help filter	
PayItemTag10	Customer/Project specific list of options to help filter	
PayItemTag2	Customer/Project specific list of options to help filter	
PayItemTag3	Customer/Project specific list of options to help filter	
PayItemTag4	Customer/Project specific list of options to help filter	
PayItemTag5	Customer/Project specific list of options to help filter	
PayItemTag6	Customer/Project specific list of options to help filter	
PayItemTag7	Customer/Project specific list of options to help filter	
PayItemTag8	Customer/Project specific list of options to help filter	
PayItemTag9	Customer/Project specific list of options to help filter	
PayItemUserDefined1	Free-form text field provided to give more categorizing and filter capabilities for the project.	
PayItemUserDefined10	Free-form text field provided to give more categorizing and filter capabilities for the project.	
PayItemUserDefined2	Free-form text field provided to give more categorizing and filter capabilities for the project.	
PayItemUserDefined3	Free-form text field provided to give more categorizing and filter capabilities for the project.	
PayItemUserDefined4	Free-form text field provided to give more categorizing and filter capabilities for the project.	
PayItemUserDefined5	Free-form text field provided to give more categorizing and filter capabilities for the project.	

Name	Description	Example
PayItemUserDefined6	Free-form text field provided to give more categorizing and filter capabilities for the project.	
PayItemUserDefined7	Free-form text field provided to give more categorizing and filter capabilities for the project.	
PayItemUserDefined8	Free-form text field provided to give more categorizing and filter capabilities for the project.	
PayItemUserDefined9	Free-form text field provided to give more categorizing and filter capabilities for the project.	
PayQuantity	Amount of quantity that will be paid for by the owner.	100000
ProjectDisplayNumber	Identifies the associated project. Project Display is unique to a project.	TestProject
RowNumber	Row in which this pay item can be displayed in the order of the pay items.	1
SalesOrder	Overall document that is associated with the pay item.	510000001
TotalPrice	Amount of payment expected from the owner.	100000
UnitPrice	Amount of payment that is expected per quantity.	1.00
UOM	Unit of measure for the pay item.	K\$
SourceSystemId	Unique value for the pay item that does not change.	363.1
OriginalPrice	Original price of the pay item.	100000
OriginalPayQuantity	Original quantity of the pay item.	100000
OriginalUnitPrice	Original unity Price of the pay item.	1
OriginalBillingMethod	Original billing method of the pay item.	Fixed Final Price
OriginalForecastTakeOffQuantity	Original forecast take off quantity of the pay item.	100000
IsPayItemLocked	Indicates if the price of the pay item is locked.	False
PayItemPosition	Indicates the location of the pay item in the hirarchy.	1.1.3
IsTerminal	Indicates whether the pay item is terminal or not.	True
RetainagePercentage	Percent that is to be retained on each bill for that pay item.	10.0
RetentionWithHeld	Sum of all the retention that is withheld for a payitem.	10
NetBilledRevenue	Sum of all the net billed revenue amounts on a payitem.	90
LogToken	Unique identifier (GUID) that can be used when viewing or obtaining error records in InEight error logging for each integration request.	Cb68a7a1-31c8-430f-8a3c-43572b84f830

Sample JSON

```
{
  "PayItems": {
    "PayItem": [{
      "BillingMethod": "Fixed Final Price",
```

```

"ChangeOrderCount": 2,
"Description": "Main",
"ForecastTakeOffQuantity": 1,
"IsBilled": false,
"LineNumber": 1,
"PayItemNumber": "Pay Item 1",
"PayItemTag1": "",
"PayItemTag10": "",
"PayItemTag2": "",
"PayItemTag3": "",
"PayItemTag4": "",
"PayItemTag5": "",
"PayItemTag6": "",
"PayItemTag7": "",
"PayItemTag8": "",
"PayItemTag9": "",
"PayItemUserDefined1": "",
"PayItemUserDefined10": "",
"PayItemUserDefined2": "",
"PayItemUserDefined3": "",
"PayItemUserDefined4": "",
"PayItemUserDefined5": "",
"PayItemUserDefined6": "",
"PayItemUserDefined7": "",
"PayItemUserDefined8": "",
"PayItemUserDefined9": "",
"PayQuantity": 1000000.000000000000,
"ProjectDisplayNumber": "123456",
"RowNumber": 1,
"SalesOrder": "5100000",
"TotalPrice": 1000000.000000000000,
"UnitPrice": 1000000.000000000000,
"UOM": "LS",
"SourceSystemId": "363.2",
"OriginalPrice": 0.0,
"OriginalPayQuantity": 0.0,
"OriginalUnitPrice": 0.0,
"OriginalBillingMethod": "",
"OriginalForecastTakeOffQuantity": 0.0,
"IsPayItemLocked": false,
"PayItemPosition": "1.0",
"IsTerminal": false,
"RetainagePercentage": "",
"RetentionWithHeld": "",
"NetBilledRevenue": ""
}, {
"ProjectDisplayNumber": "123456",
"PayItemNumber": "CO 1",
"Description": "Change Order 1",
"LineNumber": 2,
"RowNumber": 2,
"TotalPrice": 50000.000000000000,
"UnitPrice": 1.000000000000,
"PayQuantity": 50000.000000000000,
"ForecastTakeOffQuantity": 50000.000000000000,
"UOM": "PLS",
"IsBilled": false,

```

```

    "BillingMethod": "Time & Expenses",
    "ChangeOrderCount": 2,
    "SalesOrder": "5100001",
    "PayItemTag1": "",
    "PayItemTag2": "",
    "PayItemTag3": "",
    "PayItemTag4": "",
    "PayItemTag5": "",
    "PayItemTag6": "",
    "PayItemTag7": "",
    "PayItemTag8": "",
    "PayItemTag9": "",
    "PayItemTag10": "",
    "PayItemUserDefined1": "TM",
    "PayItemUserDefined2": "",
    "PayItemUserDefined3": "",
    "PayItemUserDefined4": "",
    "PayItemUserDefined5": "",
    "PayItemUserDefined6": "",
    "PayItemUserDefined7": "",
    "PayItemUserDefined8": "",
    "PayItemUserDefined9": "",
    "PayItemUserDefined10": ""
    "SourceSystemId": "363.3",
    "OriginalPrice": 0.0,
    "OriginalPayQuantity": 0.0,
    "OriginalUnitPrice": 0.0,
    "OriginalBillingMethod": "",
    "OriginalForecastTakeOffQuantity": 0.0,
    "IsPayItemLocked": false,
    "PayItemPosition": "1.1",
    "IsTerminal": true,
    "RetainagePercentage": 5.0,
    "RetentionWithHeld": 0.0,
    "NetBilledRevenue": 0.0
  },
{
  "ProjectDisplayNumber": "123456",
  "PayItemNumber": "CO 2",
  "Description": "Change Order 2",
  "LineNumber": 3,
  "RowNumber": 3,
  "TotalPrice": 25000.000000000000,
  "UnitPrice": 10.000000000000,
  "PayQuantity": 250.000000000000,
  "ForecastTakeOffQuantity": 250.000000000000,
  "UOM": "K$",
  "IsBilled": false,
  "BillingMethod": "Fixed Final Price",
  "ChangeOrderCount": 2,
  "SalesOrder": "5100000",
  "PayItemTag1": "",
  "PayItemTag2": "",
  "PayItemTag3": "",
  "PayItemTag4": "",
  "PayItemTag5": "",
  "PayItemTag6": "",

```

```

"PayItemTag7": "",
"PayItemTag8": "",
"PayItemTag9": "",
"PayItemTag10": "",
"PayItemUserDefined1": "",
"PayItemUserDefined2": "",
"PayItemUserDefined3": "",
"PayItemUserDefined4": "",
"PayItemUserDefined5": "",
"PayItemUserDefined6": "",
"PayItemUserDefined7": "",
"PayItemUserDefined8": "",
"PayItemUserDefined9": "",
"PayItemUserDefined10": "",
"SourceSystemId": "363.1",
"OriginalPrice": 0.0,
"OriginalPayQuantity": 0.0,
"OriginalUnitPrice": 0.0,
"OriginalBillingMethod": "",
"OriginalForecastTakeOffQuantity": 0.0,
"IsPayItemLocked": false,
"PayItemPosition": "2",
"IsTerminal": true,
"RetainagePercentage": 5.0,
"RetentionWithHeld": 0.0,
"NetBilledRevenue": 0.0
}],
"LogToken": "cb68a7a1-31c8-430f-8a3c-43572b84f830"
}
}

```

Verification

Pay items that are pushed with this integration are shown in the InEight Control product Workspaces module on the Pay Items tab.

	Pay item	Dr	Line number	Row number	Total price	Unit price	Pay quantity	Forecast (T/O) Qty	UoM	Is billed	Billing method	Change order
<input type="checkbox"/>	001	Main...	1	1	\$ 16,957,000.00	\$ 16,957,000.00	1.00	1.00	PLS	<input type="checkbox"/>	Unit Price	
<input checked="" type="checkbox"/>	1	Chan...	1	1	\$ 0.00	\$ 0.00	0.00	1.00	Each	<input type="checkbox"/>	Unit Price	

Actual Quantities - Sync

The Actuals quantities push sends actual quantities at the transaction level to the ERP. When the actual quantity has been processed successfully by a previous sync, then the quantity will not be resent in the next sync. If the sync is not successful, then the quantity will be resent on the next sync.

Direction	From InEight Control	
Frequency	Initiated at any time by a user in the Control application	
Trigger Methods	Manually initiated in the UI	
Average Payload Size	Dependent on frequency of integration and size of project. For a large project that initiates updates weekly, there are potentially thousands of records.	
APIM Name	Not available through APIM.	
InEight Control	Starting Version	18.1
	Ending Version	
Configuration Entity Name	Control: Actual Quantity	

Fields

Depth	Name	Type	Precision	Parent
1	ActualClaimedQuantities_HDS			
2	CostItemDetail			ActualClaimedQuantities_HDS
3	ProjectId	String	50	CostItemDetail
3	PhaseCode	String	50	CostItemDetail
3	InstalledQuantity	String	22	CostItemDetail
3	UnitOfMeasure	String	50	CostItemDetail
3	PostingDate ¹	String	25	CostItemDetail
3	DocumentDate ¹	String	25	CostItemDetail
3	Notes	String	500	CostItemDetail
3	ActualsUserDefined1	String	25	CostItemDetail
3	ActualsUserDefined2	String	25	CostItemDetail
3	ActualsUserDefined3	String	250	CostItemDetail
3	ActualsUserDefined4	String	250	CostItemDetail
3	ActualsUserDefined5	String	250	CostItemDetail
3	ActualsUserDefined6	String	250	CostItemDetail
3	EstimateResource	String	50	CostItemDetail
1	Count	Number	Integer	ActualClaimedQuantities_HDS

Depth	Name	Type	Precision	Parent
1	LogToken	String	50	ActualClaimedQuantities_HDS

1 - The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000.

Field Descriptions

Name	Description	Example
ProjectId	Project Display as shown in the UI, which unique to a project.	10000
PhaseCode	Phase code of the cost item.	1586
InstalledQuantity	Quantity that has been claimed against the cost item through InEight Plan, InEight Progress, or InEight Control from the last time the integration was executed. A negative value can be used in this field as a method of backing out a previously over-claimed amount.	-6902.000000000000
UnitOfMeasure	Name of a unit of measure for the installed quantity.	CY
PostingDate	Date on which the claim was posted into the system. If there are several transactions for the same phase code across different posting dates, each phase code/posting date combination will have a separate record in the JSON.	2019-02-05T15:41:29+00:00
DocumentDate	Date on which the integration has been executed.	2019-02-05T15:41:29+00:00
Notes	Any notes that have been applied to the cost item.	A note would go here
Count	A count of the number of transactions that is included in the JSON.	2
ActualsUserDefined1	A date field associated to the actual transaction.	2024-09-09
ActualsUserDefined2	A date field associated to the actual transaction.	2024-09-09
ActualsUserDefined3	A free-form text field associated to the actual transaction.	User defined 3
ActualsUserDefined4	A free-form text field associated to the actual transaction.	User defined 4
ActualsUserDefined5	A free-form text field associated to the actual transaction.	User defined 5
ActualsUserDefined6	A free-form text field associated to the actual transaction.	User defined 6
EstimateResource	An estimate resource code associated to the actual transaction.	Labor1
LogToken	The value sent in this field corresponds to the LogToken field in the Confirmation message. It is important to ensure the LogToken sent in this field is matched correctly to the request that is being confirmed. InEight uses the log token in the confirmation to flag data as having been synchronized with the external system.	8f46cc1e-a42a-423e-a1b8-6d63dfd493a7

Sample JSON

```

{
  "ActualClaimedQuantities_HDS": {
    "CostItemDetail": [
      {
        "ProjectId": "190002",
        "PhaseCode": "1000",
        "InstalledQuantity": "0.5000000000000000",
        "UnitOfMeasure": "PLS",
        "PostingDate": "2024-09-11",
        "DocumentDate": "2024-09-11T16:25:35+00:00",
        "Notes": "Notes",
        "ActualsUserDefined1": "2024-09-09",
        "ActualsUserDefined2": "2024-09-12",
        "ActualsUserDefined3": "3",
        "ActualsUserDefined4": "4",
        "ActualsUserDefined5": "5",
        "ActualsUserDefined6": "6",
        "EstimateResource": "Labor1"
      },
      {
        "ProjectId": "190002",
        "PhaseCode": "1001",
        "InstalledQuantity": "0.5000000000000000",
        "UnitOfMeasure": "PLS",
        "PostingDate": "2024-09-11",
        "DocumentDate": "2024-09-11T16:27:09+00:00",
        "Notes": "",
        "ActualsUserDefined1": "",
        "ActualsUserDefined2": "",
        "ActualsUserDefined3": "",
        "ActualsUserDefined4": "",
        "ActualsUserDefined5": "",
        "ActualsUserDefined6": "",
        "EstimateResource": ""
      }
    ],
    "LogToken": "549fa437-b352-444e-b733-df393427531a",
    "Count": 2
  }
}

```

Push Billed Revenue - Sync

Direction	From InEight Control	
Frequency	Initiated at any time by a user in the Control application.	
Trigger Methods	Manually initiated in the UI.	
Average Payload Size	Dependent on frequency of integration and size of project. For a large project that initiates updates weekly, there are potentially thousands of records.	
APIM Name	Not available through APIM.	
InEight Control	Starting Version	19.11
	Ending Version	
Configuration Entity Name	Control: Push Billed Revenue	

Fields

Depth	Name	Type	Precision ¹	Parent
1	ProjectDisplayId	String	50	
1	LogToken	String	50	
1	BilledRevenue	Array	NA	
2	PayItemId	String	100	BilledRevenue
2	PayItemDescription	String	500	BilledRevenue
2	BilledRevenue	Decimal	11,11	BilledRevenue
2	BilledQuantity	Decimal	11,11	BilledRevenue
2	CostCategory	String	25	BilledRevenue
2	BilledDate ²	String	50	BilledRevenue
2	CBSPosition	String	100	BilledRevenue
2	WBSPhaseCode	String	50	BilledRevenue
2	Notes	String	250	BilledRevenue
2	SourceSystemID	String	50	BilledRevenue
2	SalesOrder	String	50	BilledRevenue
2	PayItemSourceSystemId	String	50	BilledRevenue
2	ChangeOrderSourceSystemId	String	50	BilledRevenue
2	ChangeOrderNumber	String	50	BilledRevenue
2	ChangeOrderDescription	String	50	BilledRevenue

Depth	Name	Type	Precision ¹	Parent
2	RetentionWithHeld	Decimal	11,11	BilledRevenue
2	NetBilledRevenue	Decimal	11,11	BilledRevenue

1 - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 - The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS±hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000

Field Descriptions

Name	Description	Example
ProjectDisplayId	Project Display as shown in the UI, which unique to a project.	10000
LogToken	Identifier in the sync log sequence.	cb68a7a1-31c8-430f-8a3c-43572b84f830
BilledRevenue	Array that all the billed revenue transactions will be under.	N/A
PayItemID	Pay item number.	001
PayItemDescription	Pay item description.	Primary Contract
BilledRevenue	Billed revenue amount.	100.00
BilledQuantity	Billed quantity amount.	0.5
CostCategory	Cost category that is associated with the billed revenue. Refer to Appendix A for the list of available cost categories.	Undefined Total
BilledDate	Date that you want to associate with the billed revenue and billed quantity.	2019-11-26 00:00:00.0000000 +00:00
CBSPosition	If you want this billed amount to be associated to a cost item that the pay item is also associated with, link it by specifying the CBS position and/or the WBS phase code.	3.1
WBSPhaseCode	If you want this billed amount to be associated to a cost item that the pay item is also associated with, link it by specifying the CBS position and/or the WBS phase code.	1234
Notes	Notes that are associated with the bill.	Billed amount through 11/26/2019
SourceSystemID	Identifier created by the system of record and used in all system communications as the primary method of specifying a unique record. This field does not display in normal use of InEight applications and can contain internal identifiers such as a GUID that is not understandable by typical system users.	
SalesOrder	Value associated with the pay item.	510000001

Name	Description	Example
PayItemSourceSystemId	Unique value for the pay item that does not change.	363.1
ChangeOrderSourceSystemId	A unique value for the change order.	
ChangeOrderNumber	Change order number that is shown in the UI on the Control Change tab.	1
ChangeOrderDescription	Description of the change order description.	Client change order 1
RetentionWithHeld	Retained amount on a bill.	1
NetBilledRevenue	Amount of BilledRevenue minus RetentionWithHeld on a bill.	99

Sample JSON

```
{
  "BilledRevenue": [
    "LogToken": "58a0658d-6cbe-49ce-8c19-f75e0a3726ba",
    "ProjectDisplayId": "190001"
    {
      "PayItemId": "001",
      "PayItemDescription": "",
      "BilledRevenue": 100.0,
      "BilledQuantity": 50.0,
      "CostCategory": "Undefined Total",
      "BilledDate": "2019-11-26 00:00:00.0000000 +00:00",
      "CBSPosition": "3.1",
      "WBSPhaseCode": "1003",
      "Notes": "",
      "SourceSystemId": "",
      "SalesOrder": "510000001",
      "PayItemSourceSystemId": "363.2",
      "ChangeOrderSourceSystemId": "",
      "ChangeOrderNumber": "1",
      "ChangeOrderDescription": "",
      "RetentionWithHeld": 0.0,
      "NetBilledRevenue": 10.0
    },
    {
      "PayItemId": "001",
      "PayItemDescription": "Pay Item 1",
      "BilledRevenue": 100.0,
      "BilledQuantity": 1,
      "CostCategory": "Undefined Materials",
      "BilledDate": "2019-11-26 00:00:00.0000000 +00:00",
      "CBSPosition": "8",
      "WBSPhaseCode": "1019",
      "Notes": "Billed amount through 11/26/2019",
      "SourceSystemId": "",
      "SalesOrder": "510000001",
      "PayItemSourceSystemId": "363.1",
      "ChangeOrderSourceSystemId": "",
      "ChangeOrderNumber": "2",
      "ChangeOrderDescription": ""
    }
  ]
}
```

```
"RetentionWithHeld": 0.0,  
  "NetBilledRevenue": 10.0  
  }  
],  
}
```

Get Billed Revenue (Request) - Sync

Direction	From InEight Control	
Frequency	Initiated at any time by a user in the Control application.	
Trigger Methods	Manually initiated in the UI.	
Average Payload Size	Dependent on frequency of integration and size of project. For a large project that initiates updates weekly, there are potentially thousands of records.	
APIM Name	Not available through APIM.	
InEight Control	Starting Version	19.11
	Ending Version	
Configuration Entity Name	Control: Get Billed Revenue	

Fields

Depth	Name	Type	Precision	Parent
1	ProjectDisplay	String	50	
1	FromDate ¹	String	25	
1	FromTime ¹	String	25	
1	ToDate ¹	String	25	
1	ToTime ¹	String	25	
1	LogToken	String	50	

¹ - The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000.

Field Descriptions

Name	Description	Example
ProjectDisplay	Project Display as shown in the UI, which unique to a project.	10346
FromDate	Beginning date for all actuals to return. Starting date is determined by InEight, based on the last date the integration was executed.	2017-09-01
FromTime	Starting time for all actuals to return.	15:08:25
ToDate	Ending date of actuals to return.	2017-09-01
ToTime	Ending time of actuals to return.	15:09:06

Name	Description	Example
LogToken	Identifier in the sync log sequence.	ca30fd02-5078-43c3-9ff0-97d30d2e6824

Sample JSON

```
{
  "ProjectDisplay": "190001",
  "FromDate": "2019-11-27",
  "FromTime": "02:06:23",
  "ToDate": "2019-12-10",
  "ToTime": "02:03:53",
  "LogToken": "3d26d64d-a5cb-4627-9ec2-fdf5b5a2f045"
}
```


Get Billed Revenue (Response) - Sync

Direction	To InEight Control	
Frequency	When the user initiates a request, a response is required.	
Trigger Methods	Manually initiated in the UI.	
Average Payload Size	Dependent on frequency of integration and size of project. For a large project that initiates updates weekly, there are potentially thousands of records.	
APIM Name	Create Billed Revenue Sync	
InEight Control	Starting Version	19.11
	Ending Version	
Configuration Entity Name	Control: Get Billed Revenue	

Fields

Depth	Name	Type	Precision ¹	Parent
1	BilledRevenues	Array	NA	
2	PayItemId	String	100	BilledRevenues
2	BilledRevenue	Decimal	11,11	BilledRevenues
2	BilledQuantity	Decimal	11,11	BilledRevenues
2	CostCategory	String	25	BilledRevenues
2	BilledDate	String	50	BilledRevenues
2	CBSPosition	String	100	BilledRevenues
2	WBSPhasecode	String	50	BilledRevenues
2	Notes	String	250	BilledRevenues
2	SourceSystemId	String	50	BilledRevenues
2	SourceSystemName	String	50	BilledRevenues
2	PayItemSourceSystemId	String	150	BilledRevenues
2	RetentionWithHeld	String	25	BilledRevenues
2	NetBilledRevenue	String	25	BilledRevenues
1	ProjectDisplay	String	50	
1	LogToken	String	50	
1	Logger	Array	NA	Logger
2	LogDate	Date/Time		Logger
2	LogLevel	String	20	Logger

Depth	Name	Type	Precision ¹	Parent
2	LogMessage	String	4000	Logger
2	LogSource	String	100	Logger

1 - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
BilledRevenues	Array	
PayItemId	Pay item number	
BilledRevenue	Amount of the billed revenue.	100
BilledQuantity	Amount of the billed quantity.	0.5
CostCategory	Cost category that is associated with the billed revenue. Refer to Appendix A for the list of available cost categories.	Undefined Total
BilledDate	Date that you want to associate with the billed revenue and billed quantity.	11/26/2019
CBSPosition	If you want this billed amount to be associated to a cost item that the pay item is also associated to, link it by specifying the CBS position and/or the WBS phase code.	3.1
WBSPhasecode	If you want this billed amount to be associated to a cost item that the pay item is also associated to, link it by specifying the CBS position and/or the WBS phase code.	1234
Notes	Notes that are associated with the bill.	Billed amount through 11/26/2019
SourceSystemId	Identifier created by the system of record and used in all system communications as the primary method of specifying a unique record. This field does not display in normal use of InEight applications and can contain internal identifiers such as a GUID that is not understandable by typical system users.	
SourceSystemName	Name of the system from where the information was originated.	ERP
PayItemSourceSystemId	Unique ID for the pay item that does not change. The criteria is used to match the pay item to the associated bill. If the ID does not match or find the pay item to associate in the bill, the sync will fail.	363.1
RetentionWithHeld	Retained amount on a bill.	1
NetBilledRevenue	Amount of BilledRevenue minus RetentionWithHeld on a bill.	99

Name	Description	Example
ProjectDisplay	Project Display as shown in the UI, which unique to a project.	100000
LogToken	Identifier in the sync log sequence.	ca30fd02-5078-43c3-9ff0-97d30d2e6824
Logger	Array header of LogErrors for integration. Fields within this array can be repeated for multiple errors that may have occurred in the ERP.	
LogDate	Date and time that the log error message was created in the external system	2020-07-28T04:43:56.2210625+00:00
LogLevel	Is Error for the type of log.	Error
LogMessage	Message that is shown for the reason the failure occurred.	Unable to Process Billed Revenue
LogSource	Area where the log occurred.	ERP

Sample JSON

```
{
  "ProjectDisplay": "100000",
  "BilledRevenues": [
    {
      "PayItemId": "711-05.723",
      "BilledRevenue": "3",
      "BilledQuantity": "6",
      "CostCategory": "Vacation",
      "BilledDate": "12/08/2019",
      "CBSPosition": "1.7.9.1.2",
      "WBSPhasecode": "1000",
      "Notes": "",
      "SourceSystemId": "188eac59-1a2c-49de-b3f4-e2499b77501d",
      "SourceSystemName": "ERP",
      "PayItemSourceSystemId": "363.1",
      "RetentionWithHeld": "0.5",
      "NetBilledRevenue": "2.5"
    }
  ],
  "LogToken": "81de2acd1cf74401bfdd04e1db9b3944"
}
```

Sample Error Message

```
[
  {
    "ProjectDisplay": "100000",
    "BilledRevenues": [],
    "LogToken": "4a308d50-3cc9-4a39-9240-ce20e1241d62",
    "Logger": [
      {
        "LogDate": "2020-09-24T18:50:32.9738103+00:00",
        "LogLevel": "Error",

```

```

    "LogMessage": "Unable to process Billed Revenue with correlation 4a308d50-3cc9-4a39-9240-ce20e1241d62.",
    "LogSource": "ERP"
  },
  {
    "LogDate": "2020-09-24T18:50:32.9738103+00:00",
    "LogLevel": "Error",
    "LogMessage": "BILLEDREVENUE FAILED.",
    "LogSource": "ERP"
  }
]
}
]

```

Integration Status

There are multiple ways to get the status associated with the Billed revenue sync, depending on the issue or how a customer wants to view the status of the integration.

- Results are available through Audit Log > Integration, which includes error messaging and status.
- A location field is available in the results in the response header.

Sample:

Location <https://qa.hds.ineight.com/ExternalSystem//Messages/Status?messageId=772d849e-4739-4e34-9467-0da05b9434e0>

A system must be able to go to that URI and see if the API was successful or failed.

Sample:

Success

```

{
  "Status": "Success",
  "CorrelationID": "fd058d5f-d22f-4056-8c72-6c25265707f0",
  "ProjectDisplay": "103093",
  "ErrorDetails": []
}

```

Failure

```

{
  "Status": "Failed",
  "CorrelationID": "de068edb-b9ac-4281-8a08-7926ae2fe316",
  "ProjectDisplay": "GoldenSnapshot26072022180836",
  "ErrorDetails": [
    {
      "ErrorCode": 10014,
      "ErrorDescription": "In order to claim man hours 'Allow as built' value within Control must be set to 'All' or 'Cost'",
      "CostItemList": [
        {
          "Code": "1007"
        }
      ]
    }
  ]
}

```

```

]
}

```

Error Codes

11001	The pay item identifier has not been sent by the ERP
11002	Pay item identifier match not found
11003	Either Billed revenue or Billed quantity is required
11004	Billed revenue cannot be 0
11005	Billed revenue cannot exceed the maximum limit of 11,11
11006	Billed revenue must be a numeric value
11007	Billed quantity cannot be 0
11008	Billed quantity cannot exceed the maximum limit of 11,11
11009	Billed quantity must be a numeric value
11010	Cost category is required when Billed revenue is not null
11011	Cost Category match not found
11012	Billed date is required
11013	Billed date format should be MM/DD/YYYY
11014	Billed date must be valid
11015	Billed date must be equal to or less than today's date
11016	WBS phase code match not found
11017	CBS position code match not found
11018	Notes cannot exceed the maximum character limit of 250
11019	WBS phase code is not associated with Pay item
11020	CBS position code is not associated with Pay item
10029	Time out or other system errors - System Error. Kindly Try again later

Billed Revenue (Generic) - Post

Direction	To InEight Control	
Frequency	As determined by the customer	
Trigger Methods	Available through apim – when the customers erp sends a json to the api	
Average Payload Size	Dependent on frequency of integration and size of project. For a large project that initiates updates weekly, there are potentially thousands of records.	
APIM Name	Create Billed Revenue Generic	
InEight Control	Starting Version	19.11
	Ending Version	

Fields

Depth	Name	Type	Precision ¹	Parent
1	ProjectDisplay	String	50	
1	BilledRevenues	Array	NA	
2	PayItemId	String	100	BilledRevenues
2	BilledRevenue	Decimal	11,11	BilledRevenues
2	BilledQuantity	Decimal	11,11	BilledRevenues
2	CostCategory	String	25	BilledRevenues
2	BilledDate	String	50	BilledRevenues
2	CBSPosition	String	100	BilledRevenues
2	WBSPhasecode	String	50	BilledRevenues
2	Notes	String	250	BilledRevenues
2	PayItemSourceSystemId	String	150	BilledRevenue
2	SourceSystemId	String	50	BilledRevenues
2	SourceSystemName	String	50	BilledRevenues
2	RetentionWithHeld	String	25	BilledRevenues
2	NetBilledRevenue	String	25	BilledRevenues

¹ - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
ProjectDisplay	External Project ID, which is unique to a project.	10000
BilledRevenues	Array	
PayItemId	Pay item number.	`
BilledRevenue	Billed revenue amount.	100
BilledQuantity	Billed quantity amount.	0.5
CostCategory	Cost category that is associated with the billed revenue. Refer to Appendix A for the list of available cost categories.	Undefined Total
BilledDate	Date that you want to associate with the billed revenue and billed quantity.	11/26/2019
CBSPosition	If you want this billed amount to be associated to a cost item that the pay item is also associated with, link it by specifying the CBS position and/or the WBS phase code.	3.1
WBSPhasecode	If you want this billed amount to be associated to a cost item that the pay item is also associated with, link it by specifying the CBS position and/or the WBS phase code.	1234
Notes	Notes that are associated with the bill.	Billed amount through 11/26/2019
PayItemSourceSystemId	Unique ID for the pay item that does not change. The criteria is used to match the pay item to the associated bill. If the ID does not match or find the pay item to associate in the bill, the sync will fail.	
SourceSystemId	Identifier created by the system of record and used in all system communications as the primary method of specifying a unique record. This field does not display in normal use of InEight applications and can contain internal identifiers such as a GUID that is not understandable by typical system users	
SourceSystemName	Name of the system from where the information was originated.	ERP
RetentionWithHeld	Retained amount on a bill.	1
NetBilledRevenue	Amount of BilledRevenue minus RetentionWithHeld on a bill.	99

Sample JSON

```
{
  "ProjectDisplay": "190001-1",
  "BilledRevenue": [
    {
      "PayItemID": "1",
      "BilledRevenue": "1.1",
      "BilledQuantity": "",
      "BilledDate": "09/01/2019",
      "WBSPhaseCode": "1004",
      "CBSPosition": "",
      "CostCategory": "Custom Category1",
      "PayItemSourceSystemId": "363.001",
      "Notes": "",
      "SourceSystemId": "001.1",
      "SourceSystemName": "ExternalSystem",
      "RetentionWithHeld": "0.1",
      "NetBilledRevenue": "1"
    }
  ]
}
```

Integration Status

There are multiple ways to get the status associated with the Build Revenue (generic) API, depending on the issue or how the customer wants to view the status of the integration.

- Results are available through the import history screen, which includes error messaging in a downloadable file.
- A customer can send a URI within the header of the JSON, the variable X-TaskCompleteCallbackURI sends the results back to that provided URI. The results include the project, status, and any reasons for failure.
- A location field is available in the results in the response header.

Sample:

Location <https://qa.hds.ineight.com/ExternalSystem//Messages/Status?messageId=772d849e-4739-4e34-9467-0da05b9434e0>

A system must be able to go to that URI and see if the API was successful or failed.

Sample:

Success

```
{
  "Status": "Success",
  "CorrelationID": "fd058d5f-d22f-4056-8c72-6c25265707f0",
  "ProjectDisplay": "103093",
  "ErrorDetails": []
}
```

Failure

```
{
  "Status": "Failed",
```



```

"CorrelationID": "de068edb-b9ac-4281-8a08-7926ae2fe316",
"ProjectDisplay": "GoldenSnapshot26072022180836",
"ErrorDetails": [
  {
    "ErrorCode": 11018,
    "ErrorDescription": "Notes cannot exceed the maximum character limit of 250",
    "BillingListList": [
      {
        "PayItem": "1"
      }
    ]
  }
]
}

```

Error Codes

11001	The pay item identifier has not been sent by the ERP
11002	Pay item identifier match not found
11003	Either Billed revenue or Billed quantity is required
11004	Billed revenue cannot be 0
11005	Billed revenue cannot exceed the maximum limit of 11,11
11006	Billed revenue must be a numeric value
11007	Billed quantity cannot be 0
11008	Billed quantity cannot exceed the maximum limit of 11,11
11009	Billed quantity must be a numeric value
11010	Cost category is required when Billed revenue is not null
11011	Cost Category match not found
11012	Billed date is required
11013	Billed date format should be MM/DD/YYYY
11014	Billed date must be valid"
11015	Billed date must be equal to or less than today's date
11016	WBS phase code match not found
11017	CBS position code match not found
11018	Notes cannot exceed the maximum character limit of 250
11019	WBS phase code is not associated with Pay item
11020	CBS position code is not associated with Pay item
10029	Time out or other system errors - System Error. Kindly Try again later

Push Time Phased Forecast - Sync

Direction	From InEight Control	
Frequency	Initiated at any time by a user in the Control application.	
Trigger Method(s)	Manually initiated in the UI	
Average Payload Size	Dependent on frequency of integration and size of project. For a large project that initiates updates weekly, there are potentially thousands of records.	
APIM Name	Not available through APIM	
InEight Control	Starting Version	19.11
	Ending Version	
Configuration Entity Name	Control: Time Phased Forecast	

Fields

Depth	Name	Type	Precision ¹	Parent
1	TimePhaseForecastMapper	Array	NA	
2	PhaseCode	String	1	TimePhaseForecastMapper
2	UnitofMeasure	String	1	TimePhaseForecastMapper
2	Currency	String	1	TimePhaseForecastMapper
2	CostCurve	String	1	TimePhaseForecastMapper
2	ForecastMethod	String	1	TimePhaseForecastMapper
2	Year	String	1	TimePhaseForecastMapper
2	Month	String	1	TimePhaseForecastMapper
2	ForecastedCost	String	1	TimePhaseForecastMapper
2	RemainingCost	String	1	TimePhaseForecastMapper
2	Name	String	2	TimePhaseForecastMapper
2	Amount	String	2	TimePhaseForecastMapper
2	IsTerminalCostCategory	String	2	TimePhaseForecastMapper
2	ForecastManhours	String	2	TimePhaseForecastMapper
2	ForecastQuantity	String	2	TimePhaseForecastMapper
2	EnabledForecastMethod	Boolean	NA	TimePhaseForecastMapper
2	AveragePerformanceSetting	String	2	TimePhaseForecastMapper
1	TimPhaseForecastValues	Array	NA	
2	ProjectID	String	50	TimePhaseForecastValues

Depth	Name	Type	Precision ¹	Parent
2	BatchSequence	Number	Integer	TimePhaseForecastValues
2	BatchCount	Number	Integer	TimePhaseForecastValues
2	LogTokenID	String	50	TimePhaseForecastValues
2	TimePhaseForecastData	Array	NA	TimePhaseForecastValues
3	TimePhaseForecast	Array	NA	TimePhaseForecastData
4	1	String	50	TimePhaseForecast
4	2	String	25	TimePhaseForecast
4	3	String	25	TimePhaseForecast
4	4	String	50	TimePhaseForecast
4	5	String	50	TimePhaseForecast
4	15	Boolean	NA	TimePhaseForecast
4	16	String	50	TimePhaseForecast
4	ForecastPeriod	Array	NA	TimePhaseForecast
5	6	String	4	ForecastPeriod
5	7	String	4	ForecastPeriod
5	8	Decimal	11,11	ForecastPeriod
5	9	Decimal	11,11	ForecastPeriod
5	ForecastCostCategory	Array	NA	ForecastPeriod
6	10	String	100	ForecastCostCategory
6	11	Decimal	11,11	ForecastCostCategory
6	12	Boolean	NA	ForecastCostCategory
5	13	Decimal	11,11	ForecastPeriod
5	14	Decimal	11,11	ForecastPeriod
2	LiveForecastCost	Array	NA	TimePhaseForecastValues
3	LiveCostCategory	Array	NA	LiveForecastCost
4	CostCategoryID	Number	Integer	LiveCostCategory
4	CostCategoryName	String	100	LiveCostCategory
4	IsTerminal	Boolean	NA	LiveCostCategory
4	Cost	Decimal	11,11	LiveCostCategory

1 - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
TimePhaseForecastMapper	Array header.	
PhaseCode	Defines which attribute phase code is associated with in the JSON.	1
UnitofMeasure	Defines which attribute that unit of measure is associated with in the JSON.	2
Currency	Defines which attribute that currency is associated with in the JSON.	3
CostCurve	Defines which attribute that cost curve is associated with in the JSON.	4
ForecastMethod	Defining which attribute that forecast method is associated with in the JSON.	5
Year	Defines which attribute that year is associated with in the JSON.	6
Month	Defines which attribute that month is associated with in the JSON.	7
ForecastedCost	Defines which attribute that forecasted cost is associated with in the JSON.	8
RemainingCost	Defines which attribute that remaining cost is associated with in the JSON.	9
Name	Defines which attribute that cost category Source System ID is associated with in the JSON. See to Appendix A .	10
Amount	Defines which attribute that period forecast amount is associated with in the JSON.	11
IsTerminalCostCategory	Defines which attribute that is terminal cost category indicator is associated with in the JSON.	12
ForecastManhours	Defines which attribute that period forecast manhours is associated with in the JSON.	13
ForecastQuantity	Defines which attribute that period forecast quantity is associated with in the JSON.	14
EnabledForecastMethod	Defines which attribute that the enabled forecast method indicator is associated with in the JSON.	15
AveragePerformanceSetting	Defines which attribute that the average performance setting is associated with in the JSON.	16
TimPhaseForecastValues	An array	
ProjectID	Project Display as shown in the UI, which unique to a project.	123456
BatchSequence	If there is more than one batch for the interface, this defines the sequence in which this JSON should be read.	1
BatchCount	Defines if there is more than one batch for this interface.	1

Name	Description	Example
LogTokenID	Identifier in the sync log sequence.	
TimePhaseForecastData	An array.	
TimePhaseForecast	An array.	
1	Associated to the phase code that was in the time phase forecast mapper array.	1004
2	Associated to the unit of measure that was in the time phase forecast mapper array.	Each
3	Associated to the currency that was in the time phase forecast mapper array.	USD
4	Associated to the cost curve that was in the time phase forecast mapper array.	Linear
5	Associated to the forecast method that was in the time phase forecast mapper array.	Current Estimate
15	Associated to if the forecast method is enabled.	true
16	Associated to the Average performance setting that is selected	To date
ForecastPeriod	An array.	
6	Associated to the year that was in the time phase forecast mapper array.	2020
7	Associated to the month that was in the time phase forecast mapper array.	3
8	Associated to the period forecasted cost that was in the time phase forecast mapper array.	1000
9	Associated to the forecast remaining cost for the period that was in the time phase forecast mapper array	100
ForecastCostCategory	An array.	
10	Associated to the Source System ID of the cost category to associate the forecasted cost with that was in the time phase forecast mapper array. See Appendix A .	Undefined Total
11	Associated to the amount of time phased forecast for that cost category for the period that was in the time phase forecast mapper array.	500
12	Associated to the Is terminal cost category that was in the time phase forecast mapper array.	True
13	Associated to the amount of time phased forecast manhours for that period that is in the time phase forecast mapper array.	1
14	Associated to the amount of time phased forecast quantity for that period that is in the time phase forecast mapper array.	2
LiveForecastCost	An array.	

Name	Description	Example
LiveCostCategory	An array.	
CostCategoryID	Numeric representation for the cost category name.	0
CostCategoryName	Cost category Source System ID. See Appendix A .	Undefined Total
IsTerminal	Indicates if the cost category is terminal or not.	True
Cost	Amount of live forecast for the cost category.	11000.99901

Sample JSON

```
{
  "TimePhaseForecastMapper": {
    "PhaseCode": "1",
    "UnitOfMeasure": "2",
    "Currency": "3",
    "CostCurve": "4",
    "ForecastMethod": "5",
    "Year": "6",
    "Month": "7",
    "ForecastedCost": "8",
    "RemainingCost": "9",
    "Name": "10",
    "Amount": "11",
    "IsTerminalCostCategory": "12",
    "ForecastManhours": "13",
    "ForecastQuantity": "14",
    "EnabledForecastMethod": "15",
    "AveragePerformanceSetting": "16"
  },
  "TimePhaseForecastValues": {
    "ProjectId": "100000",
    "BatchSequence": 1,
    "BatchCount": 1,
    "LogTokenId": "a3a879ae-fd61-4d98-ad37-a98893561d9b",
    "TimePhaseForecastData": {
      "TimePhaseForecast": [
        {
          "1": "1010",
          "2": "MH",
          "3": "",
          "4": "Linear",
          "5": "Current budget",
          "15": true,
          "16": "",
          "ForecastPeriod": [
            {
              "6": "2020",
              "7": "9",
              "8": 0.0,
              "9": 18715.15776600018,
              "ForecastCostCategory": [],
              "13": 0.0,
              "14": 63.34470588235
            }
          ]
        }
      ]
    }
  }
}
```

```
    },
    {
      "6": "2020",
      "7": "10",
      "8": 327515.2609049985,
      "9": 0.0,
      "ForecastCostCategory": [
        {
          "10": "Subcontract Price",
          "11": 327515.2609054843,
          "12": true
        },
        {
          "10": "Subcontract",
          "11": 327515.2609054843,
          "12": false
        },
        {
          "10": "Total",
          "11": 327515.2609054843,
          "12": false
        }
      ],
      "13": 0.0,
      "14": 1108.53235294116
    },
    {
      "6": "2020",
      "7": "11",
      "8": 262012.2087240026,
      "9": 0.0,
      "ForecastCostCategory": [
        {
          "10": "Subcontract Price",
          "11": 262012.2087243912,
          "12": true
        },
        {
          "10": "Subcontract",
          "11": 262012.2087243912,
          "12": false
        },
        {
          "10": "Total",
          "11": 262012.2087243912,
          "12": false
        }
      ],
      "13": 0.0,
      "14": 886.82588235294
    },
    {
      "6": "2020",
      "7": "12",
      "8": 28072.7366489987,
      "9": 0.0,
      "ForecastCostCategory": [
```

```

        {
          "10": "Subcontract Price",
          "11": 28072.73664904033,
          "12": true
        },
        {
          "10": "Subcontract",
          "11": 28072.73664904033,
          "12": false
        },
        {
          "10": "Total",
          "11": 28072.73664904033,
          "12": false
        }
      ],
      "13": 0.0,
      "14": 95.01705882352
    }
  ]
},
{
  "1": "1001",
  "2": "PLS",
  "3": "",
  "4": "Linear",
  "5": "Rollup",
  "15": true,
  "16": "",
  "ForecastPeriod": [
    {
      "6": "2020",
      "7": "9",
      "8": 0.0,
      "9": 77666.59787719259,
      "ForecastCostCategory": [],
      "13": 0.0,
      "14": 0.01975786422
    },
    {
      "6": "2020",
      "7": "10",
      "8": 1311142.2643893182,
      "9": 0.0,
      "ForecastCostCategory": [
        {
          "10": "Undefined Total",
          "11": 659330.6959850396,
          "12": true
        },
        {
          "10": "Total",
          "11": 1313648.640249752,
          "12": false
        }
      ],
        {
          "10": "Undefined Labor",

```



```

    "11": 206188.37429541278,
    "12": true
  },
  {
    "10": "Labor",
    "11": 206188.37429541278,
    "12": false
  },
  {
    "10": "Undefined Subcontract",
    "11": 47326.89282222525,
    "12": true
  },
  {
    "10": "Subcontract",
    "11": 448129.5699692995,
    "12": false
  },
  {
    "10": "Subcontract Price",
    "11": 400802.67714707428,
    "12": true
  }
],
"13": 10.0,
"14": 0.33354584276
},
{
  "6": "2020",
  "7": "11",
  "8": 402649.5478977212,
  "9": 0.0,
  "ForecastCostCategory": [
    {
      "10": "Undefined Total",
      "11": 202479.3295616296,
      "12": true
    },
    {
      "10": "Total",
      "11": 403419.25163962246,
      "12": false
    },
    {
      "10": "Undefined Labor",
      "11": 63320.09725159953,
      "12": true
    },
    {
      "10": "Labor",
      "11": 63320.09725159953,
      "12": false
    },
    {
      "10": "Undefined Subcontract",
      "11": 14534.00787682529,
      "12": true
    }
  ]
}

```

```

    },
    {
      "10": "Subcontract",
      "11": 137619.8248263933,
      "12": false
    },
    {
      "10": "Subcontract Price",
      "11": 123085.81694956802,
      "12": true
    }
  ],
  "13": 10.0,
  "14": 0.10243135809
},
{
  "6": "2020",
  "7": "12",
  "8": 28072.7366489987,
  "9": 0.0,
  "ForecastCostCategory": [
    {
      "10": "Undefined Total",
      "11": 14116.86397098178,
      "12": true
    },
    {
      "10": "Total",
      "11": 28126.40041332416,
      "12": false
    },
    {
      "10": "Undefined Labor",
      "11": 4414.67877963361,
      "12": true
    },
    {
      "10": "Labor",
      "11": 4414.67877963361,
      "12": false
    },
    {
      "10": "Undefined Subcontract",
      "11": 1013.31139625228,
      "12": true
    },
    {
      "10": "Subcontract",
      "11": 9594.85766270877,
      "12": false
    },
    {
      "10": "Subcontract Price",
      "11": 8581.54626645649,
      "12": true
    }
  ]
},

```

```

    "13": 0.0,
    "14": 0.00714151687
  },
  {
    "6": "2021",
    "7": "1",
    "8": 10.0,
    "9": 0.0,
    "ForecastCostCategory": [
      {
        "10": "Undefined Total",
        "11": 5.02867395775,
        "12": true
      },
      {
        "10": "Total",
        "11": 10.01911597181,
        "12": false
      },
      {
        "10": "Undefined Labor",
        "11": 1.5725858276,
        "12": true
      },
      {
        "10": "Labor",
        "11": 1.5725858276,
        "12": false
      },
      {
        "10": "Undefined Subcontract",
        "11": 0.36095924986,
        "12": true
      },
      {
        "10": "Subcontract",
        "11": 3.41785618646,
        "12": false
      },
      {
        "10": "Subcontract Price",
        "11": 3.0568969366,
        "12": true
      }
    ],
    "13": 0.0,
    "14": 0.00000254393
  }
]
},
{
  "1": "1000",
  "2": "PLS",
  "3": "",
  "4": "Linear",
  "5": "Rollup",
  "15": true,

```

```

"16": "",
"ForecastPeriod": [
  {
    "6": "2020",
    "7": "9",
    "8": 0.0,
    "9": 77666.59787719259,
    "ForecastCostCategory": [],
    "13": 0.0,
    "14": 0.01807614627
  },
  {
    "6": "2020",
    "7": "10",
    "8": 1311142.2643893182,
    "9": 0.0,
    "ForecastCostCategory": [
      {
        "10": "Undefined Total",
        "11": 889956.2749391036,
        "12": true
      },
      {
        "10": "Total",
        "11": 1352248.3053753458,
        "12": false
      },
      {
        "10": "Custom Category1",
        "11": 39486.47722269128,
        "12": true
      },
      {
        "10": "Undefined Labor",
        "11": 133234.29446542264,
        "12": true
      },
      {
        "10": "Labor",
        "11": 133234.29446542264,
        "12": false
      },
      {
        "10": "Undefined Subcontract",
        "11": 30581.57471757195,
        "12": true
      },
      {
        "10": "Subcontract",
        "11": 289571.25874812816,
        "12": false
      },
      {
        "10": "Subcontract Price",
        "11": 258989.6840305562,
        "12": true
      }
    ]
  }
]

```

```

    ],
    "13": 10.0,
    "14": 0.30515562685
  },
  {
    "6": "2020",
    "7": "11",
    "8": 402649.5478977212,
    "9": 0.0,
    "ForecastCostCategory": [
      {
        "10": "Undefined Total",
        "11": 273304.050586663,
        "12": true
      },
      {
        "10": "Total",
        "11": 415273.14281066387,
        "12": false
      },
      {
        "10": "Custom Category1",
        "11": 12126.22964998811,
        "12": true
      },
      {
        "10": "Undefined Labor",
        "11": 40916.02405629182,
        "12": true
      },
      {
        "10": "Labor",
        "11": 40916.02405629182,
        "12": false
      },
      {
        "10": "Undefined Subcontract",
        "11": 9391.54931426604,
        "12": true
      },
      {
        "10": "Subcontract",
        "11": 88926.83851772092,
        "12": false
      },
      {
        "10": "Subcontract Price",
        "11": 79535.28920345487,
        "12": true
      }
    ]
  },
  "13": 10.0,
  "14": 0.09371277132
},
{
  "6": "2020",
  "7": "12",

```

```

"8": 28072.7366489987,
"9": 0.0,
"ForecastCostCategory": [
  {
    "10": "Undefined Total",
    "11": 19054.7653096407,
    "12": true
  },
  {
    "10": "Total",
    "11": 28952.85400515847,
    "12": false
  },
  {
    "10": "Custom Category1",
    "11": 845.44103746483,
    "12": true
  },
  {
    "10": "Undefined Labor",
    "11": 2852.66623060543,
    "12": true
  },
  {
    "10": "Labor",
    "11": 2852.66623060543,
    "12": false
  },
  {
    "10": "Undefined Subcontract",
    "11": 654.77905538948,
    "12": true
  },
  {
    "10": "Subcontract",
    "11": 6199.98142744751,
    "12": false
  },
  {
    "10": "Subcontract Price",
    "11": 5545.20237205803,
    "12": true
  }
],
"13": 0.0,
"14": 0.00653365678
},
{
  "6": "2021",
  "7": "1",
  "8": 10.0,
  "9": 0.0,
  "ForecastCostCategory": [
    {
      "10": "Undefined Total",
      "11": 6.78764081603,
      "12": true
    }
  ]
}

```

```
    },
    {
      "10": "Total",
      "11": 10.31351320219,
      "12": false
    },
    {
      "10": "Custom Category1",
      "11": 0.30116089073,
      "12": true
    },
    {
      "10": "Undefined Labor",
      "11": 1.01616962616,
      "12": true
    },
    {
      "10": "Labor",
      "11": 1.01616962616,
      "12": false
    },
    {
      "10": "Undefined Subcontract",
      "11": 0.23324375659,
      "12": true
    },
    {
      "10": "Subcontract",
      "11": 2.20854186927,
      "12": false
    },
    {
      "10": "Subcontract Price",
      "11": 1.97529811268,
      "12": true
    }
  ],
  "13": 0.0,
  "14": 0.0000023274
}
]
},
{
  "1": "1003",
  "2": "MWk",
  "3": "",
  "4": "Linear",
  "5": "Current budget",
  "15": true,
  "16": "",
  "ForecastPeriod": [
    {
      "6": "2020",
      "7": "9",
      "8": 0.0,
      "9": 2744.18276923083,
      "ForecastCostCategory": [],

```

```

        "13": 0.0,
        "14": 0.37903076923
    }
]
},
{
  "1": "1009",
  "2": "MH",
  "3": "",
  "4": "Linear",
  "5": "Rollup",
  "15": true,
  "16": "",
  "ForecastPeriod": [
    {
      "6": "2020",
      "7": "9",
      "8": 0.0,
      "9": 18715.15776600018,
      "ForecastCostCategory": [],
      "13": 0.0,
      "14": 83.79449922387
    },
    {
      "6": "2020",
      "7": "10",
      "8": 327515.2609049985,
      "9": 0.0,
      "ForecastCostCategory": [
        {
          "10": "Undefined Subcontract",
          "11": 34588.83476838161,
          "12": true
        },
        {
          "10": "Subcontract",
          "11": 327515.2609049985,
          "12": false
        },
        {
          "10": "Total",
          "11": 327515.2609049985,
          "12": false
        },
        {
          "10": "Subcontract Price",
          "11": 292926.4261366169,
          "12": true
        }
      ],
      "13": 0.0,
      "14": 1466.40373641772
    },
    {
      "6": "2020",
      "7": "11",
      "8": 262012.2087240026,

```



```

"9": 0.0,
"ForecastCostCategory": [
  {
    "10": "Undefined Subcontract",
    "11": 27671.06781470569,
    "12": true
  },
  {
    "10": "Subcontract",
    "11": 262012.2087240026,
    "12": false
  },
  {
    "10": "Total",
    "11": 262012.2087240026,
    "12": false
  },
  {
    "10": "Subcontract Price",
    "11": 234341.1409092969,
    "12": true
  }
],
"13": 0.0,
"14": 1173.12298913419
},
{
  "6": "2020",
  "7": "12",
  "8": 28072.7366489987,
  "9": 0.0,
  "ForecastCostCategory": [
    {
      "10": "Undefined Subcontract",
      "11": 2964.75726586115,
      "12": true
    },
    {
      "10": "Subcontract",
      "11": 28072.73664899869,
      "12": false
    },
    {
      "10": "Total",
      "11": 28072.73664899869,
      "12": false
    },
    {
      "10": "Subcontract Price",
      "11": 25107.97938313754,
      "12": true
    }
  ],
  "13": 0.0,
  "14": 125.69174883579
}
]

```

```

},
{
  "1": "1002",
  "2": "MWk",
  "3": "",
  "4": "Linear",
  "5": "Rollup",
  "15": true,
  "16": "",
  "ForecastPeriod": [
    {
      "6": "2020",
      "7": "9",
      "8": 0.0,
      "9": 58951.44011119241,
      "ForecastCostCategory": [],
      "13": 0.0,
      "14": 13.04210917934
    },
    {
      "6": "2020",
      "7": "10",
      "8": 983627.0034843198,
      "9": 0.0,
      "ForecastCostCategory": [
        {
          "10": "Undefined Labor",
          "11": 983627.0034843198,
          "12": true
        },
        {
          "10": "Labor",
          "11": 983627.0034843198,
          "12": false
        },
        {
          "10": "Total",
          "11": 983627.0034843198,
          "12": false
        }
      ]
    },
    "13": 10.0,
    "14": 217.61250865106
  ],
  {
    "6": "2020",
    "7": "11",
    "8": 140637.33917371857,
    "9": 0.0,
    "ForecastCostCategory": [
      {
        "10": "Undefined Labor",
        "11": 140637.33917371857,
        "12": true
      },
      {
        "10": "Labor",

```

```

        "11": 140637.33917371857,
        "12": false
    },
    {
        "10": "Total",
        "11": 140637.33917371857,
        "12": false
    }
],
"13": 10.0,
"14": 31.11387149721
},
{
    "6": "2021",
    "7": "1",
    "8": 10.0,
    "9": 0.0,
    "ForecastCostCategory": [
        {
            "10": "Undefined Labor",
            "11": 10.0,
            "12": true
        },
        {
            "10": "Labor",
            "11": 10.0,
            "12": false
        },
        {
            "10": "Total",
            "11": 10.0,
            "12": false
        }
    ],
    "13": 0.0,
    "14": 0.00221234785
}
],
{
    "1": "1008",
    "2": "MWk",
    "3": "",
    "4": "Linear",
    "5": "Current budget",
    "15": false,
    "16": "",
    "ForecastPeriod": [
        {
            "6": "2020",
            "7": "9",
            "8": 0.0,
            "9": 3452.799999999999,
            "ForecastCostCategory": [],
            "13": 0.0,
            "14": 1.039999999999
        }
    ],

```

```

    {
      "6": "2020",
      "7": "10",
      "8": 60424.000000000004,
      "9": 0.0,
      "ForecastCostCategory": [
        {
          "10": "Undefined Labor",
          "11": 60424.000000000005,
          "12": true
        },
        {
          "10": "Labor",
          "11": 60424.000000000005,
          "12": false
        },
        {
          "10": "Total",
          "11": 60424.000000000005,
          "12": false
        }
      ],
      "13": 0.0,
      "14": 18.2
    },
    {
      "6": "2020",
      "7": "11",
      "8": 22443.199999999995,
      "9": 0.0,
      "ForecastCostCategory": [
        {
          "10": "Undefined Labor",
          "11": 22443.199999999995,
          "12": true
        },
        {
          "10": "Labor",
          "11": 22443.199999999995,
          "12": false
        },
        {
          "10": "Total",
          "11": 22443.199999999995,
          "12": false
        }
      ],
      "13": 0.0,
      "14": 6.759999999999
    }
  ],
},
{
  "1": "1004",
  "2": "MWk",
  "3": "",
  "4": "Linear",

```

```

"5": "Current budget",
"15": true,
"16": "",
"ForecastPeriod": [
  {
    "6": "2020",
    "7": "9",
    "8": 0.0,
    "9": 30992.000000000074,
    "ForecastCostCategory": [],
    "13": 0.0,
    "14": 5.2
  },
  {
    "6": "2020",
    "7": "10",
    "8": 542359.99999999988,
    "9": 0.0,
    "ForecastCostCategory": [
      {
        "10": "Undefined Labor",
        "11": 542359.99999999988,
        "12": true
      },
      {
        "10": "Labor",
        "11": 542359.99999999988,
        "12": false
      },
      {
        "10": "Total",
        "11": 542359.99999999988,
        "12": false
      }
    ]
  },
  "13": 0.0,
  "14": 90.999999999999
},
{
  "6": "2020",
  "7": "11",
  "8": 46488.000000000043,
  "9": 0.0,
  "ForecastCostCategory": [
    {
      "10": "Undefined Labor",
      "11": 46488.000000000043,
      "12": true
    },
    {
      "10": "Labor",
      "11": 46488.000000000043,
      "12": false
    },
    {
      "10": "Total",
      "11": 46488.000000000043,

```

```

        "12": false
      }
    ],
    "13": 0.0,
    "14": 7.8
  }
]
},
{
  "1": "1005",
  "2": "MWk",
  "3": "",
  "4": "Linear",
  "5": "Current budget",
  "15": true,
  "16": "",
  "ForecastPeriod": [
    {
      "6": "2020",
      "7": "9",
      "8": 0.0,
      "9": 7297.15121951205,
      "ForecastCostCategory": [],
      "13": 0.0,
      "14": 1.67365853658
    },
    {
      "6": "2020",
      "7": "10",
      "8": 127700.14634146351,
      "9": 0.0,
      "ForecastCostCategory": [
        {
          "10": "Undefined Labor",
          "11": 127700.14634146351,
          "12": true
        },
        {
          "10": "Labor",
          "11": 127700.14634146351,
          "12": false
        },
        {
          "10": "Total",
          "11": 127700.14634146351,
          "12": false
        }
      ]
    },
    "13": 0.0,
    "14": 29.28902439024
  ],
  {
    "6": "2020",
    "7": "11",
    "8": 14594.30243902442,
    "9": 0.0,
    "ForecastCostCategory": [

```

```

        {
          "10": "Undefined Labor",
          "11": 14594.30243902442,
          "12": true
        },
        {
          "10": "Labor",
          "11": 14594.30243902442,
          "12": false
        },
        {
          "10": "Total",
          "11": 14594.30243902442,
          "12": false
        }
      ],
      "13": 0.0,
      "14": 3.34731707317
    },
    {
      "6": "2021",
      "7": "1",
      "8": 10.0,
      "9": 0.0,
      "ForecastCostCategory": [
        {
          "10": "Undefined Labor",
          "11": 10.0,
          "12": true
        },
        {
          "10": "Labor",
          "11": 10.0,
          "12": false
        },
        {
          "10": "Total",
          "11": 10.0,
          "12": false
        }
      ],
      "13": 0.0,
      "14": 0.0
    }
  ],
},
{
  "1": "1007",
  "2": "MWk",
  "3": "",
  "4": "Linear",
  "5": "Current budget",
  "15": true,
  "16": "",
  "ForecastPeriod": [
    {
      "6": "2020",

```

```

"7": "9",
"8": 0.0,
"9": 5985.30612244896,
"ForecastCostCategory": [],
"13": 0.0,
"14": 1.06122448979
},
{
"6": "2020",
"7": "10",
"8": 104742.85714285722,
"9": 0.0,
"ForecastCostCategory": [
{
"10": "Undefined Labor",
"11": 104742.85714285722,
"12": true
},
{
"10": "Labor",
"11": 104742.85714285722,
"12": false
},
{
"10": "Total",
"11": 104742.85714285722,
"12": false
}
],
"13": 0.0,
"14": 18.57142857142
},
{
"6": "2020",
"7": "11",
"8": 35911.8367346938,
"9": 0.0,
"ForecastCostCategory": [
{
"10": "Undefined Labor",
"11": 35911.8367346938,
"12": true
},
{
"10": "Labor",
"11": 35911.8367346938,
"12": false
},
{
"10": "Total",
"11": 35911.8367346938,
"12": false
}
],
"13": 0.0,
"14": 6.36734693877
}

```



```

    ]
  },
  {
    "1": "1006",
    "2": "MWk",
    "3": "",
    "4": "Linear",
    "5": "Current budget",
    "15": true,
    "16": "",
    "ForecastPeriod": [
      {
        "6": "2020",
        "7": "9",
        "8": 0.0,
        "9": 8479.999999999984,
        "ForecastCostCategory": [],
        "13": 0.0,
        "14": 1.324999999999
      },
      {
        "6": "2020",
        "7": "10",
        "8": 148400.000000000018,
        "9": 0.0,
        "ForecastCostCategory": [
          {
            "10": "Undefined Labor",
            "11": 148400.000000000018,
            "12": true
          },
          {
            "10": "Labor",
            "11": 148400.000000000018,
            "12": false
          },
          {
            "10": "Total",
            "11": 148400.000000000018,
            "12": false
          }
        ]
      },
      {
        "13": 0.0,
        "14": 23.1875
      }
    ],
    {
      "6": "2020",
      "7": "11",
      "8": 21199.999999999997,
      "9": 0.0,
      "ForecastCostCategory": [
        {
          "10": "Undefined Labor",
          "11": 21199.999999999997,
          "12": true
        }
      ]
    }
  }

```

```

        "10": "Labor",
        "11": 21199.999999999997,
        "12": false
      },
      {
        "10": "Total",
        "11": 21199.999999999997,
        "12": false
      }
    ],
    "13": 0.0,
    "14": 3.312499999999
  }
}
]
},
"LiveForecastCost": {
  "LiveCostCategory": [
    {
      "CostCategoryId": 0,
      "CostCategoryName": "Total",
      "IsTerminal": false,
      "Cost": 11896033.547068
    },
    {
      "CostCategoryId": 1,
      "CostCategoryName": "Labor",
      "IsTerminal": false,
      "Cost": 2163327.475244
    },
    {
      "CostCategoryId": 2,
      "CostCategoryName": "Labor Base",
      "IsTerminal": true,
      "Cost": 1616171.294773
    },
    {
      "CostCategoryId": 4,
      "CostCategoryName": "Labor Burden",
      "IsTerminal": false,
      "Cost": 470638.520471
    },
    {
      "CostCategoryId": 5,
      "CostCategoryName": "Labor Fringes",
      "IsTerminal": false,
      "Cost": 295808.134091
    },
    {
      "CostCategoryId": 6,
      "CostCategoryName": "Travel",
      "IsTerminal": true,
      "Cost": 139437.282873
    },
    {
      "CostCategoryId": 7,

```

```
"CostCategoryName": "Premium",
"IsTerminal": true,
"Cost": 51000.398188
},
{
"CostCategoryId": 8,
"CostCategoryName": "Holiday",
"IsTerminal": true,
"Cost": 13821.412609
},
{
"CostCategoryId": 9,
"CostCategoryName": "Savings",
"IsTerminal": true,
"Cost": 123266.542961
},
{
"CostCategoryId": 13,
"CostCategoryName": "Health & Welfare",
"IsTerminal": true,
"Cost": 0.015969
},
{
"CostCategoryId": 14,
"CostCategoryName": "Apprenticeship",
"IsTerminal": true,
"Cost": -85125.207975
},
{
"CostCategoryId": 17,
"CostCategoryName": "Undefined Labor Fringes",
"IsTerminal": true,
"Cost": 53407.689466
},
{
"CostCategoryId": 18,
"CostCategoryName": "Labor Insurance",
"IsTerminal": false,
"Cost": 57599.550388
},
{
"CostCategoryId": 19,
"CostCategoryName": "Bodily Injury & Property Damage",
"IsTerminal": true,
"Cost": 2238.298864
},
{
"CostCategoryId": 20,
"CostCategoryName": "Workers Compensation",
"IsTerminal": true,
"Cost": 20443.135406
},
{
"CostCategoryId": 21,
"CostCategoryName": "Undefined Insurance1",
"IsTerminal": true,
"Cost": 2387.519135
```

```
    },
    {
      "CostCategoryId": 22,
      "CostCategoryName": "Undefined Insurance2",
      "IsTerminal": true,
      "Cost": 21189.234707
    },
    {
      "CostCategoryId": 23,
      "CostCategoryName": "Undefined Labor Insurance",
      "IsTerminal": true,
      "Cost": 11341.362276
    },
    {
      "CostCategoryId": 24,
      "CostCategoryName": "Labor Taxes",
      "IsTerminal": false,
      "Cost": 117230.835992
    },
    {
      "CostCategoryId": 25,
      "CostCategoryName": "FICA",
      "IsTerminal": true,
      "Cost": 108930.577751
    },
    {
      "CostCategoryId": 26,
      "CostCategoryName": "FUTA",
      "IsTerminal": true,
      "Cost": 1193.759058
    },
    {
      "CostCategoryId": 27,
      "CostCategoryName": "SUTA",
      "IsTerminal": true,
      "Cost": 3581.279183
    },
    {
      "CostCategoryId": 30,
      "CostCategoryName": "Undefined Labor Taxes",
      "IsTerminal": true,
      "Cost": 3525.22
    },
    {
      "CostCategoryId": 32,
      "CostCategoryName": "Undefined Labor",
      "IsTerminal": true,
      "Cost": 76517.66
    },
    {
      "CostCategoryId": 123,
      "CostCategoryName": "Owned Equipment",
      "IsTerminal": false,
      "Cost": 1110665.844848
    },
    {
      "CostCategoryId": 124,
```

```
"CostCategoryName": "OE Ownership",
"IsTerminal": false,
"Cost": 792529.024848
},
{
"CostCategoryId": 125,
"CostCategoryName": "OE Depreciation",
"IsTerminal": true,
"Cost": 752108.79514
},
{
"CostCategoryId": 126,
"CostCategoryName": "OE Overhead",
"IsTerminal": true,
"Cost": 40420.229708
},
{
"CostCategoryId": 135,
"CostCategoryName": "OE Operation",
"IsTerminal": false,
"Cost": 318136.82
},
{
"CostCategoryId": 136,
"CostCategoryName": "OE Repair Parts",
"IsTerminal": true,
"Cost": 112545.29
},
{
"CostCategoryId": 138,
"CostCategoryName": "OE Fuel",
"IsTerminal": true,
"Cost": 172590.25
},
{
"CostCategoryId": 139,
"CostCategoryName": "OE Lube",
"IsTerminal": true,
"Cost": 13969.63
},
{
"CostCategoryId": 140,
"CostCategoryName": "OE Tires & Tracks",
"IsTerminal": true,
"Cost": 19031.65
},
{
"CostCategoryId": 145,
"CostCategoryName": "Rented Equipment",
"IsTerminal": false,
"Cost": 26780.0
},
{
"CostCategoryId": 146,
"CostCategoryName": "RE Rental",
"IsTerminal": false,
"Cost": 26300.0
```

```

    },
    {
      "CostCategoryId": 148,
      "CostCategoryName": "RE Overhead",
      "IsTerminal": true,
      "Cost": 19800.0
    },
    {
      "CostCategoryId": 149,
      "CostCategoryName": "RE Finance Expense",
      "IsTerminal": true,
      "Cost": 6500.0
    },
    {
      "CostCategoryId": 166,
      "CostCategoryName": "Undefined Rented Equipment",
      "IsTerminal": true,
      "Cost": 480.0
    },
    {
      "CostCategoryId": 175,
      "CostCategoryName": "Materials",
      "IsTerminal": false,
      "Cost": 1833015.680131
    },
    {
      "CostCategoryId": 177,
      "CostCategoryName": "Installed Materials",
      "IsTerminal": true,
      "Cost": 1830296.830131
    },
    {
      "CostCategoryId": 179,
      "CostCategoryName": "Undefined Materials",
      "IsTerminal": true,
      "Cost": 2718.85
    },
    {
      "CostCategoryId": 180,
      "CostCategoryName": "Subcontract",
      "IsTerminal": false,
      "Cost": 4061552.190207
    },
    {
      "CostCategoryId": 181,
      "CostCategoryName": "Subcontract Price",
      "IsTerminal": true,
      "Cost": 4058083.820207
    },
    {
      "CostCategoryId": 185,
      "CostCategoryName": "Undefined Subcontract",
      "IsTerminal": true,
      "Cost": 3468.37
    },
    {
      "CostCategoryId": 186,

```

```

"CostCategoryName": "Fees",
"IsTerminal": false,
"Cost": 168643.392058
},
{
"CostCategoryId": 190,
"CostCategoryName": "Sales Taxes",
"IsTerminal": true,
"Cost": 168643.392058
},
{
"CostCategoryId": 193,
"CostCategoryName": "Allowance",
"IsTerminal": false,
"Cost": 349116.046518
},
{
"CostCategoryId": 194,
"CostCategoryName": "Risk Allowance",
"IsTerminal": true,
"Cost": 349116.046518
},
{
"CostCategoryId": 197,
"CostCategoryName": "Custom Category1",
"IsTerminal": true,
"Cost": 1022857.0
},
{
"CostCategoryId": 198,
"CostCategoryName": "Undefined Total",
"IsTerminal": true,
"Cost": 92499.0
},
{
"CostCategoryId": 205,
"CostCategoryName": "Supplies",
"IsTerminal": false,
"Cost": 1067576.918062
},
{
"CostCategoryId": 206,
"CostCategoryName": "Undefined Supplies",
"IsTerminal": true,
"Cost": 1067576.918062
}
]
}
}
}

```

Push Forecast Revenue - Sync

Direction	From InEight Control	
Frequency	Initiated at any time by a user in the Control application.	
Trigger Methods	Manually initiated in the UI.	
Average Payload Size	Dependent on frequency of integration and size of project. For a large project that initiates updates weekly, there are potentially thousands of records.	
APIM Name	Not available through APIM.	
InEight Control	Starting Version	20.11
	Ending Version	
Configuration Entity Name	Control: Push Forecast Revenue	

Fields

Depth	Name	Type	Precision ¹	Parent
1	ForecastRevenue	Array	NA	
2	LogTokenID	String	50	
2	ProjectDisplayId	String	50	
2	UnApprovedRevenue	Decimal	11,11	
2	CountofPayItems	Number	Integer	
2	ForecastRevenueDetails	Array	NA	
3	PayItemId	String	150	ForecastRevenueDetails
3	PayItemNumber	String	50	ForecastRevenueDetails
3	PayItemDescription	String	150	ForecastRevenueDetails
3	ForecastRevenue	String	50	ForecastRevenueDetails
3	RevenueForecastMethod	String	100	ForecastRevenueDetails
3	SalesOrder	String	50	ForecastRevenueDetails
3	UnApprovedRevenue	Decimal	11,11	ForecastRevenueDetails
3	ContributingUnapprovedRevenue	Decimal	11,11	ForecastRevenueDetails

¹ - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
ForecastRevenue	Array header.	
LogTokenID	Identifier in the sync log sequence.	cb68a7a1-31c8-430f-8a3c-43572b84f830
ProjectDisplayId	Project Display as shown in the UI, which unique to a project.	100000
UnApprovedRevenue	Provides unapproved revenue that has not yet been associated with a pay item.	10000.34
CountofPayItems	Count of pay items included in the payload.	4
ForecastRevenueDetails	Array header. This section is repeated for each pay item contained in the integration.	
PayItemId	Unique pay item ID that will not change.	363.1
PayItemNumber	Pay item number entered in the UI by the user.	1
PayItemDescription	Pay item description entered in the UI by the user.	Base Contract
ForecastRevenue	Forecasted revenue for the cost item.	1000000.23
RevenueForecastMethod	Revenue forecast method of the pay item.	Default
SalesOrder	Sales order that is assigned to the pay item.	5000000001
UnApprovedRevenue	Unapproved revenue associated with the pay item.	100.23
ContributingUnapprovedRevenue	Unapproved revenue that contributes to the forecast revenue.	100.00

Sample JSON

```

{
  "ForecastRevenue": {
    "LogTokenID": "33acb869-cefc-4135-b46c-007b932b113c",
    "ProjectDisplayId": "190000",
    "UnApprovedRevenue": 0.0,
    "CountofPayItems": 10,
    "ForecastRevenueDetails": [
      {
        "PayItemId": "12628.2",
        "PayItemNumber": "2",
        "PayItemDescription": "2",
        "ForecastRevenue": 4.0,
        "RevenueForecastMethod": "Default",
        "SalesOrder": "",
        "UnApprovedRevenue": 1.0,
        "ContributingUnapprovedRevenue": 0.0
      },
      {
        "PayItemId": "12628.7",
        "PayItemNumber": "7",

```

```

    "PayItemDescription": "7",
    "ForecastRevenue": "",
    "RevenueForecastMethod": "Default",
    "SalesOrder": "",
    "UnApprovedRevenue": 0.0,
    "ContributingUnapprovedRevenue": 0.0
  },
  {
    "PayItemId": "12628.8",
    "PayItemNumber": "8",
    "PayItemDescription": "8",
    "ForecastRevenue": "",
    "RevenueForecastMethod": "Default",
    "SalesOrder": "",
    "UnApprovedRevenue": 0.0,
    "ContributingUnapprovedRevenue": 0.0
  },
  {
    "PayItemId": "12628.6",
    "PayItemNumber": "6",
    "PayItemDescription": "6",
    "ForecastRevenue": "",
    "RevenueForecastMethod": "Default",
    "SalesOrder": "",
    "UnApprovedRevenue": 0.0,
    "ContributingUnapprovedRevenue": 0.0
  },
  {
    "PayItemId": "12628.5",
    "PayItemNumber": "5",
    "PayItemDescription": "5",
    "ForecastRevenue": "",
    "RevenueForecastMethod": "Default",
    "SalesOrder": "",
    "UnApprovedRevenue": 0.0,
    "ContributingUnapprovedRevenue": 0.0
  },
  {
    "PayItemId": "c2665b08aed84762bbbbe09c7ea36eb3",
    "PayItemNumber": "07.029",
    "PayItemDescription": "07.029",
    "ForecastRevenue": 104091.63,
    "RevenueForecastMethod": "Default",
    "SalesOrder": "",
    "UnApprovedRevenue": 1500.0,
    "ContributingUnapprovedRevenue": 700.0
  },
  {
    "PayItemId": "7c07d92372bd4d929e19cf0b19075118",
    "PayItemNumber": "10.076",
    "PayItemDescription": "10.076",
    "ForecastRevenue": 1835537.97,
    "RevenueForecastMethod": "Default",
    "SalesOrder": "",
    "UnApprovedRevenue": 860.0,
    "ContributingUnapprovedRevenue": 780.0
  },

```

```
{
  "PayItemId": "12628.1",
  "PayItemNumber": "1",
  "PayItemDescription": "1",
  "ForecastRevenue": 2061.0,
  "RevenueForecastMethod": "Default",
  "SalesOrder": "",
  "UnApprovedRevenue": 1060.0,
  "ContributingUnapprovedRevenue": 1060.0
},
{
  "PayItemId": "12628.9",
  "PayItemNumber": "9",
  "PayItemDescription": "9",
  "ForecastRevenue": "",
  "RevenueForecastMethod": "Default",
  "SalesOrder": "",
  "UnApprovedRevenue": 0.0,
  "ContributingUnapprovedRevenue": 0.0
},
{
  "PayItemId": "12628.3",
  "PayItemNumber": "3",
  "PayItemDescription": "3",
  "ForecastRevenue": 0.0,
  "RevenueForecastMethod": "Default",
  "SalesOrder": "",
  "UnApprovedRevenue": 0.0,
  "ContributingUnapprovedRevenue": 0.0
}
]
}
```

Push Time Phased Budget - Sync

Direction	From InEight Control	
Frequency	Initiated at any time by a user in the Control application.	
Trigger Method(s)	Manually initiated in the UI	
Average Payload Size	Dependent on frequency of integration and size of project. For a large project that initiates updates weekly, there are potentially thousands of records.	
APIM Name	Not available through APIM	
InEight Control	Starting Version	21.1
	Ending Version	
Configuration Entity Name	Control: Time Phased Budget	

Fields

Depth	Name	Type	Precision ¹	Parent
1	TimePhaseBudgetMapper	Array	NA	
2	PhaseCode	String	1	TimePhaseBudgetMapper
2	UnitofMeasure	String	1	TimePhaseBudgetMapper
2	Currency	String	1	TimePhaseBudgetMapper
2	CostCurve	String	1	TimePhaseBudgetMapper
2	Year	String	1	TimePhaseBudgetMapper
2	Month	String	1	TimePhaseBudgetMapper
2	BudgetCost	String	1	TimePhaseBudgetMapper
2	Cost Category	String	1	TimePhaseBudgetMapper
2	Cost	String	1	TimePhaseBudgetMapper
2	IsTerminalCostCategory	String	2	TimePhaseBudgetMapper
1	TimPhaseBudgetValues	Array	NA	
2	ProjectID	String	50	TimePhaseBudgetValues
2	BatchSequence	Number	Integer	TimePhaseBudgetValues
2	BatchCount	Number	Integer	TimePhaseBudgetValues
2	LogTokenID	String	50	TimePhaseBudgetValues
2	TimePhaseBudgetData	Array	NA	TimePhaseBudgetValues
3	TimePhaseBudget	Array	NA	TimePhaseBudgetData
4	1	String	50	TimePhaseBudget

Depth	Name	Type	Precision ¹	Parent
4	2	String	25	TimePhaseBudget
4	3	String	25	TimePhaseBudget
4	4	String	50	TimePhaseBudget
4	BudgetPeriod	Array	NA	TimePhaseBudget
5	5	String	4	BudgetPeriod
5	6	String	4	BudgetPeriod
5	7	Decimal	11,11	BudgetPeriod
5	BudgetCostCategory	Array	NA	BudgetPeriod
6	8	String	100	BudgetCostCategory
6	9	Decimal	11,11	BudgetCostCategory
6	10	Boolean	NA	BudgetCostCategory

1 - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
TimePhaseBudgetMapper	Array header.	
PhaseCode	Defines the attribute that phase code is associated with in the JSON.	1
UnitofMeasure	Defines the attribute that unit of measure is associated with in the JSON.	2
Currency	Defines the attribute that currency is associated with in the JSON.	3
CostCurve	Defines the attribute that cost curve is associated with in the JSON.	4
Year	Defines the attribute that year is associated with in the JSON.	5
Month	Defines the attribute that month is associated with in the JSON.	6
BudgetCost	Defines the attribute that forecasted cost is associated with in the JSON.	7
CostCategory	Defines the attribute that cost category Source System ID is associated with in the JSON. See Appendix A .	8
Cost	Defines the attribute that period forecast amount is associated with in the JSON.	9
IsTerminalCostCategory	Defines the attribute that is terminal cost category indicator is associated with in the JSON.	10

Name	Description	Example
TimPhaseBudgetValues	An array	
ProjectID	Project Display as shown in the UI, which unique to a project.	123456
BatchSequence	If there is more than one batch for the interface, this defines the sequence in which this JSON should be read.	1
BatchCount	Defines if there is more than one batch for this interface.	1
LogTokenID	Identifier in the sync log sequence.	
TimePhaseBudgetData	An array.	
TimePhaseBudget	An array.	
1	Associated to the phase code that was in the time phase budget mapper array.	1004
2	Associated to the unit of measure that was in the time phase budget mapper array.	Each
3	Associated to the currency that was in the time phase budget mapper array.	USD
4	Associated to the cost curve that was in the time phase budget mapper array.	Linear
BudgetPeriod	An array.	
5	Associated to the year that was in the time phase budget mapper array.	2020
6	Associated to the month that was in the time phase budget mapper array.	3
7	Associated to the period budgeted cost that was in the time phase budget mapper array.	1000
BudgetCostCategory	An Array	
8	Associated to the Source System ID of the cost category to associate the budgeted cost with what was in the time phase budget mapper array. See Appendix A .	Undefined Total
9	Associated to the amount of time phased forecast for that cost category for the period what was in the time phase forecast mapper array.	500
10	Associated to the Is terminal cost category that was in the time phase budget mapper array.	True

Sample JSON

```
{
  "TimePhaseBudgetMapper": {
    "PhaseCode": "1",
    "UnitOfMeasure": "2",
    "Currency": "3",
    "CostCurve": "4",
```

```

        "Year": "5",
        "Month": "6",
        "BudgetCost": "7",
        "Costcategory": "8",
        "Cost": "9",
        "IsTerminalCostCategory": "10"
    },
    "TimePhaseBudgetValues": {
        "ProjectId": "190001",
        "BatchSequence": 1,
        "BatchCount": 1,
        "LogTokenId": "9449eb40-0e9e-4dd1-adc1-a55cb59e5d6f",
        "TimePhaseBudgetData": {
            "TimePhaseBudget": [
                {
                    "1": "1002",
                    "2": "PLS",
                    "3": "USD",
                    "4": "Linear",
                    "BudgetPeriod": [
                        {
                            "5": "2020",
                            "6": "8",
                            "7": 60.83934426229,
                            "BudgetCostCategory": [
                                {
                                    "8": "Undefined Total",
                                    "9": 52.4306544049,
                                    "10": true
                                },
                                {
                                    "8": "Total",
                                    "9": 60.83934426227,
                                    "10": false
                                },
                                {
                                    "8": "Undefined Supplies",
                                    "9": 4.99575103291,
                                    "10": true
                                },
                                {
                                    "8": "Supplies",
                                    "9": 4.99575103291,
                                    "10": false
                                },
                                {
                                    "8": "Undefined Materials",
                                    "9": 3.41293882446,
                                    "10": true
                                },
                                {
                                    "8": "Materials",
                                    "9": 3.41293882446,
                                    "10": false
                                }
                            ]
                        }
                    ]
                }
            ]
        }
    },

```

```

{
  "5": "2020",
  "6": "9",
  "7": 481.82622950819,
  "BudgetCostCategory": [
    {
      "8": "Undefined Total",
      "9": 415.23236038917,
      "10": true
    },
    {
      "8": "Total",
      "9": 481.82622950818,
      "10": false
    },
    {
      "8": "Undefined Supplies",
      "9": 39.56459282953,
      "10": true
    },
    {
      "8": "Supplies",
      "9": 39.56459282953,
      "10": false
    },
    {
      "8": "Undefined Materials",
      "9": 27.02927628948,
      "10": true
    },
    {
      "8": "Materials",
      "9": 27.02927628948,
      "10": false
    }
  ]
},
{
  "5": "2020",
  "6": "10",
  "7": 1341.42295081967,
  "BudgetCostCategory": [
    {
      "8": "Undefined Total",
      "9": 1156.02303078768,
      "10": true
    },
    {
      "8": "Total",
      "9": 1341.42295081965,
      "10": false
    },
    {
      "8": "Undefined Supplies",
      "9": 110.14936425429,
      "10": true
    },
  ],

```



```

    {
      "8": "Supplies",
      "9": 110.14936425429,
      "10": false
    },
    {
      "8": "Undefined Materials",
      "9": 75.25055577768,
      "10": true
    },
    {
      "8": "Materials",
      "9": 75.25055577768,
      "10": false
    }
  ]
},
{
  "5": "2020",
  "6": "11",
  "7": 4134.35606557374,
  "BudgetCostCategory": [
    {
      "8": "Undefined Total",
      "9": 3042.8531907658,
      "10": true
    },
    {
      "8": "Total",
      "9": 4134.35606557373,
      "10": false
    },
    {
      "8": "Undefined Supplies",
      "9": 648.48111973948,
      "10": true
    },
    {
      "8": "Supplies",
      "9": 648.48111973948,
      "10": false
    },
    {
      "8": "Undefined Materials",
      "9": 443.02175506845,
      "10": true
    },
    {
      "8": "Materials",
      "9": 443.02175506845,
      "10": false
    }
  ]
},
{
  "5": "2020",
  "6": "12",

```

```

"7": 4401.8148196721,
"BudgetCostCategory": [
  {
    "8": "Undefined Total",
    "9": 3295.12970122333,
    "10": true
  },
  {
    "8": "Total",
    "9": 4401.81481967209,
    "10": false
  },
  {
    "8": "Undefined Supplies",
    "9": 657.50115860845,
    "10": true
  },
  {
    "8": "Supplies",
    "9": 657.50115860845,
    "10": false
  },
  {
    "8": "Undefined Materials",
    "9": 449.18395984031,
    "10": true
  },
  {
    "8": "Materials",
    "9": 449.18395984031,
    "10": false
  }
]
},
{
  "5": "2021",
  "6": "1",
  "7": 1026.74059016392,
  "BudgetCostCategory": [
    {
      "8": "Undefined Total",
      "9": 703.2258665236,
      "10": true
    },
    {
      "8": "Total",
      "9": 1026.74059016384,
      "10": false
    },
    {
      "8": "Undefined Supplies",
      "9": 150.5684650567,
      "10": true
    },
    {
      "8": "Supplies",
      "9": 150.5684650567,

```

```
"10": false
},
{
  "8": "Undefined Materials",
  "9": 103.14532645591,
  "10": true
},
{
  "8": "Materials",
  "9": 105.81287800219,
  "10": false
},
{
  "8": "Labor Base",
  "9": 0.08891838487,
  "10": true
},
{
  "8": "Labor",
  "9": 20.62906529122,
  "10": false
},
{
  "8": "Travel",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Labor Fringes",
  "9": 10.67020618512,
  "10": false
},
{
  "8": "Labor Burden",
  "9": 19.65096305759,
  "10": false
},
{
  "8": "Premium",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Holiday",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Savings",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Pension",
  "9": 0.88918384876,
  "10": true
},
},
```

```
{
  "8": "Vacation",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Subsistence",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Health & Welfare",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Apprenticeship",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Undefined Fringe1",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Undefined Fringe2",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Undefined Labor Fringes",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Bodily Injury & Property Damage",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Labor Insurance",
  "9": 3.64565377991,
  "10": false
},
{
  "8": "Workers Compensation",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Undefined Insurancel",
  "9": 0.08891838487,
  "10": true
},
{
  "8": "Undefined Insurance2",
```

```
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Undefined Labor Insurance",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "FICA",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Labor Taxes",  
"9": 4.4459192438,  
"10": false  
},  
{  
"8": "FUTA",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "SUTA",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Undefined Tax1",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Undefined Labor Taxes",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Undefined Labor Burden",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Undefined Labor",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "OE Depreciation",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "OE Ownership",  
"9": 8.8918384876,  
"10": false
```

```
    },
    {
      "8": "Owned Equipment",
      "9": 15.29396219866,
      "10": false
    },
    {
      "8": "OE Overhead",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "OE Cost of Facilities Capital (Cfc)",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "OE Insurance",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "OE License",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "OE Taxes",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "OE Overhaul Parts",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "OE Overhaul Labor",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "OE Undefined Ownership1",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "Undefined OE Ownership",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "Undefined OE Operation",
      "9": 0.88918384876,
      "10": true
    },
  },
  {
```

```

"8": "OE Operation",
"9": 5.5129398623,
"10": false
},
{
"8": "OE Repair Parts",
"9": 0.88918384876,
"10": true
},
{
"8": "OE Repair Labor",
"9": 0.88918384876,
"10": true
},
{
"8": "OE Fuel",
"9": 0.88918384876,
"10": true
},
{
"8": "OE Lube",
"9": 0.88918384876,
"10": true
},
{
"8": "OE Tires & Tracks",
"9": 0.08891838487,
"10": true
},
{
"8": "OE Ground Engaging Components",
"9": 0.08891838487,
"10": true
},
{
"8": "OE Undefined Operation1",
"9": 0.88918384876,
"10": true
},
{
"8": "Undefined Owned Equipment",
"9": 0.88918384876,
"10": true
},
{
"8": "RE Rent Expense",
"9": 0.88918384876,
"10": true
},
{
"8": "RE Rental",
"9": 8.09157302371,
"10": false
},
{
"8": "Rented Equipment",
"9": 16.09422766255,

```

```
"10": false
},
{
  "8": "RE Overhead",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Finance Expense",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Insurance",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE License",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Rental Taxes",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Overhaul Parts",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Overhaul Labor",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Undefined Rent1",
  "9": 0.08891838487,
  "10": true
},
{
  "8": "Undefined RE Rental",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Repair Parts",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Operation",
  "9": 7.11347079008,
  "10": false
},
},
```



```

{
  "8": "RE Repair Labor",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Fuel",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Lube",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Tires & Tracks",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Ground Engaging Components",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "RE Undefined Operation1",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Undefined RE Operation",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Undefined Rented Equipment",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Installed Equipment",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Installed Materials",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Construction Supplies",
  "9": 0.88918384876,
  "10": true
},
{
  "8": "Subcontract Price",

```

```
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Subcontract",  
"9": 4.4459192438,  
"10": false  
},  
{  
"8": "Subcontract Conditions",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Subcontract Taxes",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Subcontract Bond",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Undefined Subcontract",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Job Bond",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Fees",  
"9": 6.22428694132,  
"10": false  
},  
{  
"8": "Job Insurance",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Finance Expense",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Business Taxes",  
"9": 0.88918384876,  
"10": true  
},  
{  
"8": "Sales Taxes",  
"9": 0.88918384876,  
"10": true
```

```

    },
    {
      "8": "Fees Undefined1",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "Undefined Fees",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "Risk Allowance",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "Allowance",
      "9": 3.55673539504,
      "10": false
    },
    {
      "8": "Contingency Allowance",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "Adjustment Allowance",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "Undefined Allowance",
      "9": 0.88918384876,
      "10": true
    },
    {
      "8": "Custom Category1",
      "9": 0.88918384876,
      "10": true
    }
  ]
}
],
{
  "1": "1046",
  "2": "PLS",
  "3": "USD",
  "4": "Linear",
  "BudgetPeriod": [
    {
      "5": "2020",
      "6": "10",
      "7": 0.0,
      "BudgetCostCategory": []
    }
  ]
}

```

```
    ]  
  }  
  ]  
}  
}
```

Sales Order (Generic) - Post

Direction		To InEight Control
Frequency		As determined by the customer
Trigger Methods		Available through APIM – when the customers ERP sends a JSON to the API
Average Payload Size		Dependent on frequency of integration and the number of sales orders associated to the project
APIM Name		Upsert Sales Order Generic
InEight Control	Starting Version	21.5
	Ending Version	

Fields

Depth	Name	Type	Precision	Parent
1	ProjectDisplay	String	50	
1	SalesOrder	Array	NA	
2	SalesOrder	String	50	SalesOrder
2	SourceSystemId	String	50	SalesOrder
2	SourceSystemName	String	250	SalesOrder
2	Description	String	250	SalesOrder

Field Descriptions

Name	Description	Example
ProjectDisplay	External project ID, which is unique for a project.	10000
SalesOrder	Array header	
SalesOrder	Sales order – Must be unique across the environment.	SI0001
SourceSystemId	Unique ID for the sales order	SI0001
SourceSystemName	Name of the system from where the information was originated.	External System
Description	Description of the sales order.	Main Contract

Sample JSON

```
{
  "ProjectDisplay": "TestProject",
  "SalesOrder": [
    {
      "SalesOrder": "SI0001",
      "SourceSystemId": " SI0001",
      "SourceSystemName": "External System",
      "Description": "Sales Order Description"
    }
  ]
}
```

Multiple Project Actuals (Generic) - Post

The actuals (generic) allows actual cost, quantity, equipment hours and man-hours to be associated to a cost item based on the joining criteria of WBS phase code or CBS position for up to 15 different projects in a JSON. It is expected the values that are sent by the ERP represent transactional totals from the last time actuals were sent to Control. The values should not represent job to-date entries.

Direction	To the InEight cloud platform.	
Frequency	Determined by external system.	
Trigger Methods	Determined by external system.	
Average Payload Size	Entire entity – Tens of thousands of records. Recommendations: <ul style="list-style-type: none"> • Maximum number of transactions is 10,000 per project. • Group transactions on a project, do not send individual transactions in a payload one by one. • If group exceeds 10,000 transactions and requires more than one payload, allow five minutes between payloads. • A project will process the payloads received one at a time; it will not process multiple payloads in parallel. 	
APIM Name	Create MultiProject Actuals Generic	
InEight Control	Starting Version	21.7
	Ending Version	

Account Configuration Options

An account level configuration determines if quantities are reported to Control from InEight Plan or InEight Progress, or if quantities are reported from an external system. The table shows the outcomes of the configuration options that impact this integration.

Tenant Configuration ImportQuantities	Cost Item Hide in Plan and Progress ¹	Outcome
Setting value = true	Ignored	All cost items in the payload will be accepted. NOTE: The Control UI still validates the Hide in Plan and Progress option normally for manual functions.
Setting value = false (or NULL)	Setting value = true	Quantities for these cost items in the payload will be accepted.
	Setting value = false (or NULL)	Quantities for these cost items in the payload will be skipped. Quantities can only come from an integration with InEight Plan and the InEight Control UI.

¹ – The “Hide in Plan and Progress” option is checked for each cost item as the integration payload is processed.

Fields

Depth	Name	Type	Precision	Parent	Req.
1	ProjectDisplay	String	50		Yes
1	Actuals	Array	NA		Yes
2	PhaseCode	String	24	Actuals	No ¹
2	CBSPositionCode	String	50	Actuals	No ¹
2	PostingDate	String	25	Actuals	Yes
2	Notes	String	250	Actuals	No
2	Quantity	String	NA	Actuals	No
2	ManHours	String	22	Actuals	No
2	EquipmentHours	String	22	Actuals	No
2	Cost	Array	NA	Actuals	No
3	CostCategories	Array	NA	Cost	No
4	Name	String	30	CostCategories	No
4	Amount	String	30	CostCategories	No
2	ActualsUserDefined1	String	25	Actuals	No
2	ActualsUserDefined2	String	25	Actuals	No
2	ActualsUserDefined3	String	250	Actuals	No
2	ActualsUserDefined4	String	250	Actuals	No
2	ActualsUserDefined5	String	250	Actuals	No
2	ActualsUserDefined6	String	250	Actuals	No
2	EstimateResource	String	50	Actuals	No
1	SourceSystemName	String	50		No
1	SourceSystemId	String	50		No

1 – See NOTE in Field Descriptions section for additional field requirements information.

Field Descriptions

Name	Description	Example
ProjectDisplay	Identifies the project associated with the Actuals request that was received. External Project ID is unique to a project.	TestProject
Actuals	Array header of the cost item records for actuals. All fields within this array can be repeated for each cost item that has data.	

Name	Description	Example
PhaseCode	WBS phase code associated with the cost item for the Actuals record. NOTE: Although stated as not required, either PhaseCode or CBSPositionCode must be provided.	1002
CBSPositionCode	CBS Position Code associated with the cost item for the Actuals record. NOTE: Although stated as not required, either CBSPositionCode or PhaseCode must be provided.	1.1
PostingDate	Date that indicates the financial period the cost, man-hours, equipment hours or quantities will be associated.	10/18/2018
Notes	Any additional information about the transaction.	Maintenance
Quantity	Claimed amount of operational quantity for the cost item.	5
ManHours	Claimed number of man-hours for the cost item.	4
EquipmentHours	Claimed number of equipment-hours for the cost item.	5
Cost	Array header of the cost records for cost categories.	5000
CostCategories	Array header of the cost categories records. All fields within this array can be repeated for each cost item that has data.	
Name	Name of the cost category.	RE Repair Labor
Amount	Claimed amount of cost for that cost category.	5000
ActualsUserDefined1	A date field associated to the actual transaction.	09/09/2024
ActualsUserDefined2	A date field associated to the actual transaction.	09/09/2024
ActualsUserDefined3	A free-form text field associated to the actual transaction.	User defined 3
ActualsUserDefined4	A free-form text field associated to the actual transaction.	User defined 4
ActualsUserDefined5	A free-form text field associated to the actual transaction.	User defined 5
ActualsUserDefined6	A free-form text field associated to the actual transaction.	User defined 6
EstimateResource	An estimate resource code associated to the actual transaction.	Labor1
SourceSystemName	Name of the external system that is using the integration. Work with InEight to provision a unique value for this field.	External System

Name	Description	Example
SourceSystemId	Identifier created by the system of record and used in all system communications as the primary method of specifying a unique record. This field does not show in normal use of InEight applications and can contain internal identifiers such as a GUID that is not understandable by typical system users.	81de2acd1cf74401bfdd04e1db9b3944

Sample JSON

```
[{
  "ProjectDisplay": "190003",
  "Actuals": [{
    "PhaseCode": "1005",
    "CBSPositionCode": "1.2",
    "PostingDate": "10/12/2023",
    "Notes": "Maintenance",
    "Quantity": "5",
    "ManHours": "4",
    "EquipmentHours": "5",
    "ActualsUserDefined1": "10/12/2023",
    "ActualsUserDefined2": "10/12/2023",
    "ActualsUserDefined3": "udf3",
    "ActualsUserDefined4": "udf4",
    "ActualsUserDefined5": "udf5",
    "ActualsUserDefined6": "udf6",
    "EstimateResource": "1-Labor",
    "Cost": {
      "CostCategories": [{
        "Name": "RE Repair Labor",
        "Amount": "5000"
      }]
    }
  ]
},
{
  "SourceSystemId": "2",
  "SourceSystemName": "External System"
},
{
  "ProjectDisplay": "190002",
  "Actuals": [{
    "PhaseCode": "1000",
    "CBSPositionCode": "1.2",
    "PostingDate": "08/12/2024",
    "Notes": "Maintenance",
    "Quantity": "5",
    "ManHours": "4",
    "EquipmentHours": "5",
    "ActualsUserDefined1": "08/12/2024",
    "ActualsUserDefined2": "08/12/2024",
    "ActualsUserDefined3": "udf3",
    "ActualsUserDefined4": "udf4",
    "ActualsUserDefined5": "udf5",
    "ActualsUserDefined6": "udf6",
    "EstimateResource": ""
  ]
}
```

```
"Cost": {
  "CostCategories": [{
    "Name": "RE Repair Labor",
    "Amount": "5000"
  }]
},
"SourceSystemId": "3",
"SourceSystemName": "External System"
}
```

Integration Status

There are multiple ways to get the status associated with the Multi Project Actuals (generic) API, depending on the issue or how the customer wants to view the status of the integration.

- Results are available through the import history screen, which includes error messaging in a downloadable file.
- A customer can send a URI within the header of the JSON, the variable X-TaskCompleteCallbackURI sends the results back to that provided URI. The results include the project, status, and any reasons for failure.
- A location field is available in the results in the response header.

Sample:

Location <https://qa.hds.ineight.com/ExternalSystem//Messages/Status?messageId=772d849e-4739-4e34-9467-0da05b9434e0>

A system must be able to go to that URI and see if the API was successful or failed.

Sample:

Success

```
{
  "Status": "Success",
  "CorrelationID": "fd058d5f-d22f-4056-8c72-6c25265707f0",
  "ProjectDisplay": "103093",
  "ErrorDetails": []
}
```

Failure

```
{
  "Status": "Failed",
  "CorrelationID": "de068edb-b9ac-4281-8a08-7926ae2fe316",
  "ProjectDisplay": "GoldenSnapshot26072022180836",
  "ErrorDetails": [
    {
      "ErrorCode": 10014,
      "ErrorDescription": "In order to claim man hours 'Allow as built' value within Control must be set to 'All' or 'Cost'",
      "CostItemList": [
        {
          "Code": "1007"
        }
      ]
    }
  ]
}
```


Verification

Additional error messaging is available through the Integrations log for each project sent.

Source	Status	Total line items	Errors	Total imported	Added estimate resources	Added pay items	Created by	Created date	Last edited by	Last edited date
Actuals from External...	Complete	1		1	0	0	Service Account	12/04/2018 01:44 PM	Service Account	12/04/2018 01:44 PM
Actuals from External...	Failed with er.	1	1	0	0	0	Service Account	12/04/2018 01:43 PM	Service Account	12/04/2018 01:43 PM

The following table lists the error messaging available in the Integrations log file.

Message
WBS phase code match not found
SAP status control value within Control must be blank
At least one among WBS phase code or CBS position code is require
CBS position code match not found
Posting date from external system is required
Posting date format within external system should be MM/DD/YYYY
Posting date in external system must be valid
Posting date in external system must be equal to or less than today's date
Notes in external system exceeds the maximum character limit of 250
Quantities in external system must be a numeric value
Allow-as-built value within Control must be set to 'All' or 'Quantity'
Hide in plan and progress ' value within Control must be set to 'Checked'
Man-hours in external system must be a numeric value
In order to claim man-hours 'Allow as built' value within Control must be set to 'All' or 'Cost'
Equipment-hours in external system must be a numeric value
In order to claim equipment hours 'Allow as built' value within Control must be set to 'All' or 'Cost'
Cost in external system must be a numeric value
In order to claim cost 'Allow as built' value within Control must be set to 'All' or 'Cost'
Cost category in external system is required to claim cost

Message
Cost Category match not found
ProjectDisplay in external system exceeds the maximum character limit of 200
CBS position code in external system exceeds the maximum character limit of 100
Quantity in external system exceeds the maximum character limit of 11 before decimal place
Man-hours in external system exceeds the maximum character limit of 11 before decimal place
Equipment hours in external system exceeds the maximum character limit of 11 before decimal place
Cost in external system exceeds the maximum character limit of 11 before decimal place
Cost category in external system exceeds the maximum character limit of 50
ActualsUserDefined1 has Invalid Date
ActualsUserDefined2 has Invalid Date
ActualsUserDefined1 has an invalid format. The Date Format should be MM/dd/yyyy
ActualsUserDefined2 has an invalid format. The Date Format should be MM/dd/yyyy
ActualsUserDefined3 has more than 250 characters
ActualsUserDefined4 has more than 250 characters
ActualsUserDefined5 has more than 250 characters
ActualsUserDefined6 has more than 250 characters
Estimate resource code <code> is not available in this project

Cost Item (Generic) – Get

NOTE: When requesting a project's cost items information, the external project ID must be used in the request.

Direction		Request to retrieve information for a project
Frequency		Determined by external system.
Trigger Methods		Determined by external system.
Average Payload Size		Entire entity – thousands to tens of thousands of records based on the size of the project
APIM Name		List Cost Item
InEight Control	Starting Version	23.4
	Ending Version	

Fields

Depth	Name	Type	Precision	Parent
1	@odata.context	String	500	
1	Value	Array	8	
2	ProjectExternalId	String	50	Value
2	ProjectDisplayID	String	200	Value
2	CostItemId	Int	22	Value
2	WbsPhaseCode	String	50	Value
2	CBSPosition	String	100	Value
2	Description	String	250	Value
2	Start ¹	String	25	Value
2	Finish ¹	String	25	Value
2	ActualStart ¹	String	25	Value
2	ActualFinish ¹	String	25	Value
2	EarlyStart ¹	String	25	Value
2	EarlyFinish ¹	String	25	Value
2	LateStart ¹	String	25	Value
2	LateFinish ¹	String	25	Value
2	AccountCode	String	500	Value
2	AccountCodeDescription	String	500	Value

Depth	Name	Type	Precision	Parent
2	AllowAsBuilt	String	20	Value
2	AsBuiltLock	Boolean	N/A	Value
2	HideinPlanProgressDesign	Boolean	N/A	Value
2	BudgetSegment1	String	250	Value
2	BudgetSegment2	String	250	Value
2	BudgetSegment3	String	250	Value
2	BudgetSegment4	String	250	Value
2	IsTerminal	Boolean	N/A	Value
2	PayItemAssignmentId	String	250	Value
2	PayItemAssignmentNumber	String	250	Value
2	CBSContributeQty	Boolean	N/A	Value
2	Currency	String	250	Value
2	QuantityDriver	String	100	Value
2	UOM	String	255	Value
2	CostSource	String	250	Value
2	CostSegment	String	250	Value
2	SourceSystemID	String	250	Value
2	SourceSystemName	String	250	Value
2	Issue	String	250	Value
2	Notes	String	4000	Value
2	Tag1	String	100	Value
2	Tag2	String	100	Value
2	Tag3	String	100	Value
2	Tag4	String	100	Value
2	Tag5	String	100	Value
2	Tag6	String	100	Value
2	Tag7	String	100	Value
2	Tag8	String	100	Value
2	Tag9	String	100	Value
2	Tag10	String	100	Value
2	Tag11	String	100	Value
2	Tag12	String	100	Value
2	Tag13	String	100	Value
2	Tag14	String	100	Value

Depth	Name	Type	Precision	Parent
2	Tag15	String	100	Value
2	Tag16	String	100	Value
2	Tag17	String	100	Value
2	Tag18	String	100	Value
2	Tag19	String	100	Value
2	Tag20	String	100	Value
2	Tag21	String	100	Value
2	Tag22	String	100	Value
2	Tag23	String	100	Value
2	Tag24	String	100	Value
2	Tag25	String	100	Value
2	UserDefined1	String	250	Value
2	UserDefined2	String	250	Value
2	UserDefined3	String	250	Value
2	UserDefined4	String	250	Value
2	UserDefined5	String	250	Value
2	UserDefined6	String	250	Value
2	UserDefined7	String	250	Value
2	UserDefined8	String	250	Value
2	UserDefined9	String	250	Value
2	UserDefined10	String	250	Value
2	UserDefined11	String	250	Value
2	UserDefined12	String	250	Value
2	UserDefined13	String	250	Value
2	UserDefined14	String	250	Value
2	UserDefined15	String	250	Value
2	Rework	Boolean	N/A	Value
2	IsActive	Boolean	N/A	Value
2	CreatedBy	String	50	Value
2	CreateDate ¹	String	25	Value
2	ModifiedBy	String	50	Value
2	ModifiedDate ¹	String	25	Value

¹ – The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000

Field Descriptions

Name	Description	Example
@odata.context	http of where the information was requested	https://test.ineight.com/integrations/\$metadata#ControlCostItem
ProjectDisplayId	Unique identifier for the project. The Project Display as shown in the UI.	103466
ProjectExternalId	Unique identifier for the project. The external project id.	103466
CostItemId	Internal ID with primary key constraint.	92122
WBSPhaseCode	Unique identifier for the cost item.	1000
CBSPosition	CBS position of the cost item.	1.1.1.3.3
Description	User-defined description of the cost item.	Financial Results
Start	Start date of the cost item.	2022-07-01T00:00:00
Finish	Finish date of the cost item.	2022-07-01T00:00:00
ActualStart	Actual start date of the cost item.	2022-07-01T00:00:00
ActualFinish	Actual finish date of the cost item.	2022-07-01T00:00:00
EarlyStart	Early start date of the cost item.	2022-07-01T00:00:00
EarlyFinish	Early finish date of the cost item.	2022-07-01T00:00:00
LateStart	Late start date of the cost item.	2022-07-01T00:00:00
LateFinish	Late finish date of the cost item.	2022-07-01T00:00:00
AccountCode	Unique identifier of the account code assigned to the cost item.	10.10.0.1
AccountDescription	Current description of the account code.	Bonds
AllowAsBuilt	Defines whether the system allows for tracking of cost, quantity, man-hours, and equipment hours.	None
AsBuiltLock	An overwrite for the AllowAsBuilt to determine if actuals should be posted against a cost item.	true
HideInPlanProgressDesign	Content from cost item Hide in Plan/Progress/Design.	true
BudgetSegment1	Content from Budget segment 1.	10000
BudgetSegment2	Content from Budget segment 2.	100
BudgetSegment3	Content from Budget segment 3.	1
BudgetSegment4	Content from Budget segment 4.	10
IsTerminal	Content from cost item IsTerminal field.	true
PayItemAssignmentId	Pay item source system ID that is generated, which cannot be changed by a user.	100.1

Name	Description	Example
PayItemAssignmentNumber	Pay item number entered in the UI by a user.	1
CBSContributeQty	Content from CBS contribute quantity.	false
Currency	Currency of the cost item.	USD
QuantityDriver	Content from Quantity Driver.	Superior CI
UOM	Cost item unit of measure.	PLS
CostSource	Content from Cost Source.	Plug
CostSegment	Content from Cost Segment.	Direct Cost
SourceSystemId	Unique external source system ID.	Any text
SourceSystemName	External source system name.	External system
Issue	Content from Issue.	Issue 1
Notes	Content from CBS Notes.	Any text
Tag1	Content from CBS tag 1.	Any text
Tag2	Content from CBS tag 2.	Any text
Tag3	Content from CBS tag 3.	Any text
Tag4	Content from CBS tag 4.	Any text
Tag5	Content from CBS tag 5.	Any text
Tag6	Content from CBS tag 6.	Any text
Tag7	Content from CBS tag 7.	Any text
Tag8	Content from CBS tag 8.	Any text
Tag9	Content from CBS tag 9.	Any text
Tag10	Content from CBS tag 10.	Any text
Tag11	Content from CBS tag 11.	Any text
Tag12	Content from CBS tag 12.	Any text
Tag13	Content from CBS tag 13.	Any text
Tag14	Content from CBS tag 14.	Any text
Tag15	Content from CBS tag 15.	Any text
Tag16	Content from CBS tag 16.	Any text
Tag17	Content from CBS tag 17.	Any text
Tag18	Content from CBS tag 18.	Any text
Tag19	Content from CBS tag 19.	Any text
Tag20	Content from CBS tag 20.	Any text
Tag21	Content from CBS tag 21.	Any text
Tag22	Content from CBS tag 22.	Any text
Tag23	Content from CBS tag 23.	Any text

Name	Description	Example
Tag24	Content from CBS tag 24.	Any text
Tag25	Content from CBS tag 25.	Any text
UserDefined1	Content from CBS user defined 1.	Any text
UserDefined2	Content from CBS user defined 2.	Any text
UserDefined3	Content from CBS user defined 3.	Any text
UserDefined4	Content from CBS user defined 4.	Any text
UserDefined5	Content from CBS user defined 5.	Any text
UserDefined6	Content from CBS user defined 6.	Any text
UserDefined7	Content from CBS user defined 7.	Any text
UserDefined8	Content from CBS user defined 8.	Any text
UserDefined9	Content from CBS user defined 9.	Any text
UserDefined10	Content from CBS user defined 10.	Any text
UserDefined11	Content from CBS user defined 11.	Any text
UserDefined12	Content from CBS user defined 12.	Any text
UserDefined13	Content from CBS user defined 13.	Any text
UserDefined14	Content from CBS user defined 14.	Any text
UserDefined15	Content from CBS user defined 15.	Any text
Rework	Cost item is marked for rework.	true
IsActive	Determines if the cost item is active in the project.	true
CreatedBy	Name of the user that created the cost item.	Service Account
CreatedDate	Date created.	2023-04-18T21:10:28.42
ModifiedBy	Name of the user that made the last change.	John Doe
ModifiedDate	Date last modified.	2023-04-18T21:10:28.42

Sample JSON

```
{
  "@odata.context":
  "https://test.ineight.com/integrations/$metadata#ControlCostItem",
  "value": [
    {
      "ProjectExternalId": "190001",
      "ProjectDisplayID": "190001",
      "CostItemID": 1808032,
      "CBSPosition": "1.2",
      "WbsPhaseCode": "1005",
      "Description": "1.2",
      "Start": "",
      "Finish": "",
      "ActualStart": ""
    }
  ]
}
```

```

"ActualFinish": "",
"EarlyStart": "",
"EarlyFinish": "",
"LateStart": "",
"LateFinish": "",
"AccountCode": "",
"AccountCodeDescription": "",
"AllowAsBUILT": "Costs",
"AsBUILTLock": "False",
"HideinPlanProgressDesign": false,
"BudgetSegment1": "190001",
"BudgetSegment2": "1005",
"BudgetSegment3": "",
"BudgetSegment4": "",
"IsTerminal": true,
"PayItemAssignmentID": "2B",
"PayItemAssignmentNumber": "2",
"CBSContributeQty": false,
"Currency": "USD",
"QuantityDriver": "Superior CI",
"UOM": "PLS",
"CostSource": "Plug",
"CostSegment": "Direct Cost",
"SourceSystemID": "1c4344a1-2eea-86f2-97a1-1ddd1adf12d2",
"SourceSystemName": "",
"Issue": "",
"Notes": "",
"Tag1": "",
"Tag2": "",
"Tag3": "",
"Tag4": "",
"Tag5": "",
"Tag6": "",
"Tag7": "",
"Tag8": "",
"Tag9": "",
"Tag10": "",
"Tag11": "",
"Tag12": "",
"Tag13": "",
"Tag14": "",
"Tag15": "",
"Tag16": "",
"Tag17": "",
"Tag18": "",
"Tag19": "",
"Tag20": "",
"Tag21": "",
"Tag22": "",
"Tag23": "",
"Tag24": "",
"Tag25": "",
"UserDefined1": "UDF 1",
"UserDefined2": "UDF 2",
"UserDefined3": "UDF 3",
"UserDefined4": "UDF 4",
"UserDefined5": "UDF 5",

```

```

"UserDefined6": "UDF 6",
"UserDefined7": "UDF 7",
"UserDefined8": "UDF 8",
"UserDefined9": "UDF 9",
"UserDefined10": "UDF 10",
"UserDefined11": "UDF 11",
"UserDefined12": "UDF 12",
"UserDefined13": "UDF 13",
"UserDefined14": "UDF 14",
"UserDefined15": "UDF 15",
"Rework": false,
"CBSURL1": "",
"CBSURL2": "",
"CBSURL3": "",
"CBSURL4": "",
"CBSURL5": "",
"CBSURL6": "787879",
"CBSURL7": "test 4543",
"CBSURL8": "sdwrwer",
"CBSURL9": "",
"CBSURL10": "",
"IsActive": true,
"CreatedBy": "InEight Service Account",
"CreatedDate": "2023-04-17T21:50:00.103",
"ModifiedBy": "John Doe",
"ModifiedDate": "2023-04-17T23:13:39.983"
},
{
"ProjectExternalId": "190001",
"ProjectDisplayID": "190001",
"CostItemID": 1808030,
"CBSPosition": "1",
"WbsPhaseCode": "1000",
"Description": "1",
"Start": "2022-01-01T00:00:00",
"Finish": "2024-06-01T00:00:00",
"ActualStart": "2022-01-01T00:00:00",
"ActualFinish": "2024-12-12T00:00:00",
"EarlyStart": "2020-05-10T00:00:00",
"EarlyFinish": "2024-10-12T00:00:00",
"LateStart": "2022-02-02T00:00:00",
"LateFinish": "2023-12-28T00:00:00",
"AccountCode": "",
"AccountCodeDescription": "",
"AllowAsBuilt": "None",
"AsBuiltLock": "False",
"HideinPlanProgressDesign": false,
"BudgetSegment1": "190001",
"BudgetSegment2": "1000",
"BudgetSegment3": "",
"BudgetSegment4": "",
"IsTerminal": false,
"PayItemAssignmentID": "",
"PayItemAssignmentNumber": "",
"CBSContributeQty": false,
"Currency": "USD",
"QuantityDriver": "Superior CI",

```

```

"UOM": "PLS",
"CostSource": "Detail",
"CostSegment": "Direct Cost",
"SourceSystemID": "197e9ebf-3381-445d-94be-425c9c7309a4",
"SourceSystemName": "",
"Issue": "",
"Notes": "",
"Tag1": "",
"Tag2": "",
"Tag3": "",
"Tag4": "",
"Tag5": "",
"Tag6": "",
"Tag7": "",
"Tag8": "",
"Tag9": "",
"Tag10": "",
"Tag11": "",
"Tag12": "",
"Tag13": "",
"Tag14": "",
"Tag15": "",
"Tag16": "",
"Tag17": "",
"Tag18": "",
"Tag19": "",
"Tag20": "",
"Tag21": "",
"Tag22": "",
"Tag23": "",
"Tag24": "",
"Tag25": "",
"UserDefined1": "",
"UserDefined2": "",
"UserDefined3": "",
"UserDefined4": "",
"UserDefined5": "",
"UserDefined6": "",
"UserDefined7": "",
"UserDefined8": "",
"UserDefined9": "",
"UserDefined10": "",
"UserDefined11": "",
"UserDefined12": "",
"UserDefined13": "",
"UserDefined14": "",
"UserDefined15": "",
"Rework": false,
"CBSURL1": "",
"CBSURL2": "",
"CBSURL3": "",
"CBSURL4": "",
"CBSURL5": "",
"CBSURL6": "787879",
"CBSURL7": "test 4543",
"CBSURL8": "sdwrwer",
"CBSURL9": "",

```

```

"CBSURL10": "",
"IsActive": true,
"CreatedBy": "InEight Service Account",
"CreatedDate": "2023-04-17T21:49:56.853",
"ModifiedBy": "John Doe",
"ModifiedDate": "2023-04-17T22:50:14.02"
},
{
"ProjectExternalId": "190001",
"ProjectDisplayID": "190001",
"CostItemID": 1808031,
"CBSPosition": "1.1",
"WbsPhaseCode": "1001",
>Description": "1.1",
"Start": "2022-01-01T00:00:00",
"Finish": "2024-06-01T00:00:00",
"ActualStart": "2022-01-01T00:00:00",
"ActualFinish": "2024-12-12T00:00:00",
"EarlyStart": "2020-05-10T00:00:00",
"EarlyFinish": "2024-10-12T00:00:00",
"LateStart": "2022-02-02T00:00:00",
"LateFinish": "2023-12-28T00:00:00",
"AccountCode": "",
"AccountCodeDescription": "",
"AllowAsBuilt": "None",
"AsBuiltLock": "False",
"HideinPlanProgressDesign": false,
"BudgetSegment1": "190001",
"BudgetSegment2": "1001",
"BudgetSegment3": "",
"BudgetSegment4": "",
"IsTerminal": false,
"PayItemAssignmentID": "1A",
"PayItemAssignmentNumber": "1",
"CBSContributeQty": false,
"Currency": "USD",
"QuantityDriver": "Superior CI",
"UOM": "PLS",
"CostSource": "Detail",
"CostSegment": "Direct Cost",
"SourceSystemID": "506332ec-840a-6da7-8098-52d101a79776",
"SourceSystemName": "",
"Issue": "",
"Notes": "",
"Tag1": "",
"Tag2": "",
"Tag3": "",
"Tag4": "",
"Tag5": "",
"Tag6": "",
"Tag7": "",
"Tag8": "",
"Tag9": "",
"Tag10": "",
"Tag11": "",
"Tag12": "",
"Tag13": "",

```



```

"Tag14": "",
"Tag15": "",
"Tag16": "",
"Tag17": "",
"Tag18": "",
"Tag19": "",
"Tag20": "",
"Tag21": "",
"Tag22": "",
"Tag23": "",
"Tag24": "",
"Tag25": "",
"UserDefined1": "UDF 1",
"UserDefined2": "UDF 2",
"UserDefined3": "UDF 3",
"UserDefined4": "UDF 4",
"UserDefined5": "UDF 5",
"UserDefined6": "UDF 6",
"UserDefined7": "UDF 7",
"UserDefined8": "UDF 8",
"UserDefined9": "UDF 9",
"UserDefined10": "UDF 10",
"UserDefined11": "UDF 11",
"UserDefined12": "UDF 12",
"UserDefined13": "UDF 13",
"UserDefined14": "UDF 14",
"UserDefined15": "UDF 15",
"Rework": false,
"CBSURL1": "",
"CBSURL2": "",
"CBSURL3": "",
"CBSURL4": "",
"CBSURL5": "",
"CBSURL6": "787879",
"CBSURL7": "test 4543",
"CBSURL8": "sdwrwer",
"CBSURL9": "",
"CBSURL10": "",
"IsActive": true,
"CreatedBy": "InEight Service Account",
"CreatedDate": "2023-04-17T21:50:00.103",
"ModifiedBy": "John Doe",
"ModifiedDate": "2023-04-17T22:50:03.603"
},
{
"ProjectExternalId": "190001",
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"CBSPosition": "1.3",
"WbsPhaseCode": "1006",
>Description": "1.3",
"Start": "",
"Finish": "",
"ActualStart": "",
"ActualFinish": "",
"EarlyStart": "",
"EarlyFinish": "",

```

```

"LateStart": "",
"LateFinish": "",
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"AccountCodeDescription": "",
"AllowAsBuilt": "Quantities",
"AsBuiltLock": "False",
"HideinPlanProgressDesign": false,
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"BudgetSegment2": "1006",
"BudgetSegment3": "",
"BudgetSegment4": "",
"IsTerminal": true,
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"PayItemAssignmentNumber": "3",
"CBSContributeQty": false,
"Currency": "USD",
"QuantityDriver": "Superior CI",
"UOM": "PLS",
"CostSource": "Plug",
"CostSegment": "Direct Cost",
"SourceSystemID": "155a9af4-769a-57f4-9160-af4347d8242f",
"SourceSystemName": "",
"Issue": "Tag 10",
"Notes": "",
"Tag1": "Tag 1",
"Tag2": "Tag 2",
"Tag3": "Tag 3",
"Tag4": "Tag 4",
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"UserDefined6": "",
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"UserDefined8": ""

```

```
"UserDefined9": "",
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"UserDefined15": "",
"Rework": false,
"CBSURL1": "",
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"CBSURL6": "787879",
"CBSURL7": "test 4543",
"CBSURL8": "sdwrwer",
"CBSURL9": "",
"CBSURL10": "",
"IsActive": true,
"CreatedBy": "InEight Service Account",
"CreatedDate": "2023-04-17T21:50:00.103",
"ModifiedBy": "John Doe",
"ModifiedDate": "2023-04-17T23:13:42.68"
},
{
"ProjectExternalId": "190001",
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"CostItemID": 1808034,
"CBSPosition": "1.1.1",
"WbsPhaseCode": "1002",
>Description": "1.1.1",
"Start": "2022-01-01T00:00:00",
"Finish": "2024-06-01T00:00:00",
"ActualStart": "2022-01-01T00:00:00",
"ActualFinish": "2024-12-12T00:00:00",
"EarlyStart": "2022-01-01T00:00:00",
"EarlyFinish": "2024-06-01T00:00:00",
"LateStart": "2022-02-02T00:00:00",
"LateFinish": "2023-12-28T00:00:00",
"AccountCode": "",
"AccountCodeDescription": "",
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"AsBuiltLock": "False",
"HideinPlanProgressDesign": false,
"BudgetSegment1": "190001",
"BudgetSegment2": "1002",
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"PayItemAssignmentID": "1A",
"PayItemAssignmentNumber": "1",
"CBSContributeQty": true,
"Currency": "USD",
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"UOM": "PLS",
"CostSource": "Plug",
"CostSegment": "Direct Cost",
```

```
"SourceSystemID": "7870667f-14c8-c7b2-8121-3080714303ad",
"SourceSystemName": "",
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"Notes": "",
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"Tag4": "Tag 4",
"Tag5": "Tag 5",
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"Tag14": "Tag 14",
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"Tag22": "Tag 22",
"Tag23": "Tag 23",
"Tag24": "Tag 24",
"Tag25": "Tag 25",
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"UserDefined3": "",
"UserDefined4": "",
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"UserDefined10": "",
"UserDefined11": "",
"UserDefined12": "",
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"UserDefined14": "",
"UserDefined15": "",
"Rework": false,
"CBSURL1": "",
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"CBSURL3": "",
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"CBSURL5": "",
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"CBSURL7": "test 4543",
"CBSURL8": "sdwrwer",
"CBSURL9": "",
"CBSURL10": "",
"IsActive": true,
"CreatedBy": "InEight Service Account",
```

```

"CreatedDate": "2023-04-17T21:50:00.617",
"ModifiedBy": "John Doe",
"ModifiedDate": "2023-04-18T01:21:17.66"
},
{
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"WbsPhaseCode": "1003",
>Description": "1.1.2",
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"LateFinish": "",
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"BudgetSegment4": "",
"IsTerminal": true,
"PayItemAssignmentID": "",
"PayItemAssignmentNumber": "",
"CBSContributeQty": false,
"Currency": "USD",
"QuantityDriver": "Superior CI",
"UOM": "PLS",
"CostSource": "Plug",
"CostSegment": "Direct Cost",
"SourceSystemID": "4190dde6-eea9-d312-99ff-4689ce25d576",
"SourceSystemName": "",
"Issue": "",
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"Tag1": "",
"Tag2": "",
"Tag3": "",
"Tag4": "",
"Tag5": "",
"Tag6": "",
"Tag7": "",
"Tag8": "",
"Tag9": "",
"Tag10": "",
"Tag11": "",
"Tag12": "",
"Tag13": "",
"Tag14": "",
"Tag15": "",
"Tag16": "",

```

```

"Tag17": "",
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"UserDefined11": "UDF 11",
"UserDefined12": "UDF 12",
"UserDefined13": "UDF 13",
"UserDefined14": "UDF 14",
"UserDefined15": "UDF 15",
"Rework": false,
"CBSURL1": "",
"CBSURL2": "",
"CBSURL3": "",
"CBSURL4": "",
"CBSURL5": "",
"CBSURL6": "787879",
"CBSURL7": "test 4543",
"CBSURL8": "sdwrwer",
"CBSURL9": "",
"CBSURL10": "",
"IsActive": true,
"CreatedBy": "InEight Service Account",
"CreatedDate": "2023-04-17T21:50:00.617",
"ModifiedBy": "John Doe",
"ModifiedDate": "2023-04-18T01:21:17.66"
},
{
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"ProjectDisplayID": "190001",
"CostItemID": 1808036,
"CBSPosition": "1.1.3",
"WbsPhaseCode": "1004",
>Description": "1.1.3",
"Start": "",
"Finish": "",
"ActualStart": "",
"ActualFinish": "",
"EarlyStart": "",
"EarlyFinish": "",
"LateStart": "",
"LateFinish": "",
"AccountCode": "00.03.01.010.002",

```

```

"AccountCodeDescription": "Publish New Account",
"AllowAsBuilt": "All",
"AsBuiltLock": "False",
"HideinPlanProgressDesign": false,
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"BudgetSegment3": "",
"BudgetSegment4": "",
"IsTerminal": true,
"PayItemAssignmentID": "",
"PayItemAssignmentNumber": "",
"CBSContributeQty": false,
"Currency": "USD",
"QuantityDriver": "Superior CI",
"UOM": "PLS",
"CostSource": "Plug",
"CostSegment": "Direct Cost",
"SourceSystemID": "bc9cda37-e97a-ba4c-9ea1-3b3a04847514",
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"Tag5": "Tag 5",
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"UserDefined5": "",
"UserDefined6": "",
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"UserDefined8": "",
"UserDefined9": "",
"UserDefined10": "",
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```

```
"UserDefined12": "",
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"CBSURL1": "",
"CBSURL2": "",
"CBSURL3": "",
"CBSURL4": "",
"CBSURL5": "",
"CBSURL6": "787879",
"CBSURL7": "test 4543",
"CBSURL8": "sdwrwer",
"CBSURL9": "",
"CBSURL10": "",
"IsActive": true,
"CreatedBy": "InEight Service Account",
"CreatedDate": "2023-04-17T21:50:00.617",
"ModifiedBy": "John Doe",
"ModifiedDate": "2023-04-18T01:21:17.66"
}
]
}
```


Budget (Generic) – Get

NOTE:

When requesting a project's budget information, the external project ID must be used in the request.

Direction	Request to retrieve information for a project	
Frequency	Determined by external system.	
Trigger Methods	Determined by external system.	
Average Payload Size	Entire entity – thousands to tens of thousands of records based on the size of the project	
APIM Name	List Budget	
InEight Control	Starting Version	23.4
	Ending Version	

Fields

Depth	Name	Type	Precision ¹	Parent
1	@odata.context	String	500	
1	Value	Array	N/A	
2	OriginalBudgetQuantity	Decimal	22,11	Value
2	OriginalBudgetUnitofMeasure	String	255	Value
2	OriginalBudgetManhours	Decimal	22,11	Value
2	OriginalBudgetTotalCost	Decimal	22,11	Value
2	OriginalBudgetUnitCost	Decimal	22,11	Value
2	OriginalBudgetCostCategory	Array	N/A	Value
3	Name	String	50	OriginalBudgetCostCategory
3	Cost	Decimal	22,11	OriginalBudgetCostCategory
3	IsTerminalCostCategory	Boolean	N/A	OriginalBudgetCostCategory
2	CurrentBudgetQuantity	Decimal	22,11	Value
2	CurrentBudgetUnitofMeasure	String	255	Value
2	CurrentBudgetManHours	Decimal	22,11	Value
2	CurrentBudgetTotalCost	Decimal	22,11	Value
2	CurrentBudgetUnitCost	Decimal	22,11	Value
2	CurrentBudgetCostCategory	Array	N/A	Value
3	Name	String	50	CurrentBudgetCostCategory

Depth	Name	Type	Precision ¹	Parent
3	Cost	Decimal	22,11	CurrentBudgetCostCategory
3	IsTerminalCostCategory	Boolean	N/A	CurrentBudgetCostCategory
2	CurrentEstimateQuantity	Decimal	22,11	Value
2	CurrentEstimateUnitofMeasure	String	255	Value
2	CurrentEstimateManHours	Decimal	22,111	Value
2	CurrentEstimateTotalCost	Decimal	22,11	Value
2	CurrentEstimateUnitCost	Decimal	22,11	Value
2	CurrentEstimateCostCategory	Array	N/A	Value
3	Name	String	50	CurrentEstimateCostCategory
3	Cost	Decimal	22,11	CurrentEstimateCostCategory
3	IsTerminalCostCategory	Boolean	N/A	CurrentEstimateCostCategory
2	ProjectId	String	200	Value
2	ProjectExternalId	String	50	Value
2	PhaseCode	String	50	Value
2	IsTerminal	Boolean	N/A	Value
2	CBSPosition	String	100	Value
2	IsActive	Boolean	N/A	Value
2	Suspend	Boolean	N/A	Value
2	IsBudgetLocked	Boolean	N/A	Value
2	CostItemSourceSystemID	String	250	Value
2	PendingBudgetCost	Decimal	22,11	Value
2	CreatedBy	String	50	Value
2	CreatedDate ²	String	25	Value
2	ModifiedBy	String	50	Value
2	ModifiedDate ²	String	25	Value
2	Currency	String	250	Value

1 – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 – The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000

Field Descriptions

Name	Description	Example
@odata.context	http of where the information was requested	https://test.ineight.com/integrations/\$metadata#ControlBudget
Value	Array	
OriginalBudgetQuantity	Original budget quantity of a cost item.	100
OriginalBudgetUnitofMeasure	Original budget unit of measure of a cost item.	PLS
OriginalBudgetManhours	Original budget manhours of a cost item.	4
OriginalBudgetTotalCost	Original Budget total cost of a cost item.	430
OriginalBudgetUnitCost	Original budget unit cost of a cost item.	4.3
OriginalBudgetCostCategory	Array	
Name	Source System ID of a cost category. See Appendix A .	RE Repair Labor
Cost	Cost of that cost category.	100
IsTerminalCostCategory	If the cost category is a terminal.	True
CurrentBudgetQuantity	Current budget quantity of a cost item.	100
CurrentBudgetUnitofMeasure	Current budget unit of measure of a cost item.	PLS
CurrentBudgetManHours	Current budget man hours of a cost item.	4
CurrentBudgetTotalCost	Current budget total cost of a cost item.	430
CurrentBudgetUnitCost	Current budget unit cost of a cost item.	4.3
CurrentBudgetCostCategory	Array	
Name	Source System ID of a cost category. See Appendix A .	RE Repair Labor
Cost	Cost of that cost category.	100
IsTerminalCostCategory	If the cost category is a terminal.	true
CurrentEstimateQuantity	Forecast take-off quantity of a cost item.	10
CurrentEstimateUnitofMeasure	Current estimate unit of measure of a cost item.	PLS
CurrentEstimateManHours	Current estimate man hours of a cost item.	5
CurrentEstimateTotalCost	Current estimate total cost of a cost item.	500
CurrentEstimateUnitCost	Current estimate unit cost of a cost item.	5
CurrentEstimateCostCategory	Array	
Name	Source System ID of the cost category. See Appendix A .	RE Repair Labor
Cost	Cost of that cost category.	100
IsTerminalCostCategory	If the cost category is a terminal.	True
ProjectId	Unique project display ID.	190001

Name	Description	Example
ProjectExternalId	External project ID.	190001
PhaseCode	WBS phase code of a cost item.	1000
IsTerminal	Indicates if the cost item is terminal.	True
CBSPosition	CBS position of a cost item.	1.1
IsActive	Indicates if the cost item is active in the project.	True
Suspend	Indicates if the cost item is suspended in the project.	False
IsBudgetLocked	Indicates if the budget is locked on the cost item.	True
CostItemSourceSystemID	Unique cost item ID for external purposes.	1000.1
PendingBudgetCost	Amount of pending budget that has not been approved.	400
CreatedBy	Name of the user that created budget information.	John Doe
CreatedDate	Date created.	2023-04-18T21:10:28.42
ModifiedBy	Name of the user that made the last change.	John Doe
ModifiedDate	Date last modified.	2023-04-18T21:10:28.42
Currency	Currency of the cost item.	USD

Sample JSON

```
{
  "@odata.context":
  "https://apitst.ineight.com/integrations/$metadata#ControlBudget",
  "value": [
    {
      "OriginalBudgetQuantity": 1.0,
      "OriginalBudgetUnitOfMeasure": "PLS",
      "OriginalBudgetManHours": 100.0,
      "OriginalBudgetTotalCost": 12966.0,
      "OriginalBudgetUnitCost": 12966.0,
      "OriginalBudgetCostCategory": [
        {
          "Name": "Total",
          "Cost": 12966.0,
          "IsTerminalCostCategory": false
        },
        {
          "Name": "Labor",
          "Cost": 263.0,
          "IsTerminalCostCategory": false
        },
        {
          "Name": "Owned Equipment",
          "Cost": 253.0,
          "IsTerminalCostCategory": false
        },
        {

```

```

    "Name": "Rented Equipment",
    "Cost": 381.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Materials",
    "Cost": 62.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Subcontract",
    "Cost": 132.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Fees",
    "Cost": 77.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Allowance",
    "Cost": 84.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Custom Category1",
    "Cost": 85.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Total",
    "Cost": 11570.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Supplies",
    "Cost": 59.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Labor Base",
    "Cost": 10.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Labor Burden",
    "Cost": 236.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Undefined Labor",
    "Cost": 17.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Labor Fringes",
    "Cost": 160.0,

```

```
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Labor Insurance",
    "Cost": 24.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Labor Taxes",
    "Cost": 52.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Undefined Labor Burden",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Travel",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Premium",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Holiday",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Savings",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Pension",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Vacation",
    "Cost": 70.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Subsistence",
    "Cost": 80.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Health & Welfare",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  },
```

```
{
  "Name": "Apprenticeship",
  "Cost": 1.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Fringe1",
  "Cost": 2.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Fringe2",
  "Cost": 3.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Labor Fringes",
  "Cost": 4.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Bodily Injury & Property Damage",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Workers Compensation",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Insurance1",
  "Cost": 7.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Insurance2",
  "Cost": 8.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Labor Insurance",
  "Cost": 9.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "FICA",
  "Cost": 11.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "FUTA",
  "Cost": 12.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "SUTA",
```

```

    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Tax1",
    "Cost": 14.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Labor Taxes",
    "Cost": 15.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Ownership",
    "Cost": 90.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "OE Operation",
    "Cost": 127.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Undefined Owned Equipment",
    "Cost": 36.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Depreciation",
    "Cost": 18.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Overhead",
    "Cost": 19.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Cost of Facilities Capital (Cfc)",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Insurance",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE License",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Taxes",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  }

```



```

    },
    {
      "Name": "OE Overhaul Parts",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Overhaul Labor",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Undefined Ownership1",
      "Cost": 26.0,
      "IsTerminalCostCategory": true
    },
    {
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      "Cost": 27.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Repair Parts",
      "Cost": 28.0,
      "IsTerminalCostCategory": true
    },
    {
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      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
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      "Name": "OE Fuel",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Lube",
      "Cost": 31.0,
      "IsTerminalCostCategory": true
    },
    {
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},
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{
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  },
  {
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"Suspend": false,
"IsBudgetLocked": true,
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"CostItemSourceSystemID": "197e9ebf-3381-445d-94be-425c9c7309a4",
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"ModifiedDate": "2023-05-31T17:11:20+00:00",
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        {
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            "Cost": 253.0,
            "IsTerminalCostCategory": false
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        {
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            "Cost": 381.0,
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    },
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        "Cost": 59.0,
        "IsTerminalCostCategory": false
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        "Cost": 10.0,
        "IsTerminalCostCategory": true
    },
    {
        "Name": "Labor Burden",
        "Cost": 236.0,
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        "Cost": 17.0,
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    {
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        "Cost": 160.0,
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},
{
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  {
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      "Cost": 84.0,
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      "IsTerminalCostCategory": false
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      "Cost": 10.0,
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      "Cost": 17.0,
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  "IsTerminalCostCategory": true
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  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
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  },
  {
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  },
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  },
  {
    "Name": "Business Taxes",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Sales Taxes",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  },

```

```

    {
      "Name": "Fees Undefined1",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Fees",
      "Cost": 77.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Finance Expense",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Risk Allowance",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Contingency Allowance",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Allowance",
      "Cost": 84.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Adjustment Allowance",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Supplies",
      "Cost": 59.0,
      "IsTerminalCostCategory": true
    }
  ],
  "CurrentEstimateQuantity": 2.0,
  "CurrentEstimateUnitOfMeasure": "PLS",
  "CurrentEstimateManHours": 0.0,
  "CurrentEstimateTotalCost": 1996.0,
  "CurrentEstimateUnitCost": 998.0,
  "CurrentEstimateCostCategory": [
    {
      "Name": "Total",
      "Cost": 1996.0,
      "IsTerminalCostCategory": false
    },
    {
      "Name": "Labor",
      "Cost": 263.0,
      "IsTerminalCostCategory": false
    }
  ],

```

```
{
  "Name": "Labor Base",
  "Cost": 10.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Labor Burden",
  "Cost": 236.0,
  "IsTerminalCostCategory": false
},
{
  "Name": "Labor Fringes",
  "Cost": 160.0,
  "IsTerminalCostCategory": false
},
{
  "Name": "Travel",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Premium",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Holiday",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Savings",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Pension",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Vacation",
  "Cost": 70.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Subsistence",
  "Cost": 80.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Health & Welfare",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Apprenticeship",
```



```
"Cost": 1.0,
"IsTerminalCostCategory": true
},
{
  "Name": "Undefined Fringe1",
  "Cost": 2.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Fringe2",
  "Cost": 3.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Labor Fringes",
  "Cost": 4.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Labor Insurance",
  "Cost": 24.0,
  "IsTerminalCostCategory": false
},
{
  "Name": "Bodily Injury & Property Damage",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Workers Compensation",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Insurancel",
  "Cost": 7.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Insurance2",
  "Cost": 8.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Labor Insurance",
  "Cost": 9.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Labor Taxes",
  "Cost": 52.0,
  "IsTerminalCostCategory": false
},
{
  "Name": "FICA",
  "Cost": 11.0,
  "IsTerminalCostCategory": true
}
```

```

    },
    {
      "Name": "FUTA",
      "Cost": 12.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "SUTA",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Tax1",
      "Cost": 14.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Labor Taxes",
      "Cost": 15.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Labor Burden",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Labor",
      "Cost": 17.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Owned Equipment",
      "Cost": 253.0,
      "IsTerminalCostCategory": false
    },
    {
      "Name": "OE Ownership",
      "Cost": 90.0,
      "IsTerminalCostCategory": false
    },
    {
      "Name": "OE Depreciation",
      "Cost": 18.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Overhead",
      "Cost": 19.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Cost of Facilities Capital (Cfc)",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {

```

```

    "Name": "OE Insurance",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE License",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Taxes",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Overhaul Parts",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Overhaul Labor",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Undefined Ownership1",
    "Cost": 26.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined OE Ownership",
    "Cost": 27.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Operation",
    "Cost": 127.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "OE Repair Parts",
    "Cost": 28.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Repair Labor",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Fuel",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Lube",
    "Cost": 31.0,

```

```

    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Tires & Tracks",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Ground Engaging Components",
    "Cost": 33.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Undefined Operation1",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined OE Operation",
    "Cost": 35.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Owned Equipment",
    "Cost": 36.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Rented Equipment",
    "Cost": 381.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "RE Rental",
    "Cost": 172.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "RE Rent Expense",
    "Cost": 38.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Overhead",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Finance Expense",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Insurance",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  },

```

```

{
  "Name": "RE License",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Rental Taxes",
  "Cost": 43.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Overhaul Parts",
  "Cost": 44.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Overhaul Labor",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Undefined Rent1",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined RE Rental",
  "Cost": 47.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Operation",
  "Cost": 153.0,
  "IsTerminalCostCategory": false
},
{
  "Name": "RE Repair Parts",
  "Cost": 48.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Repair Labor",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Fuel",
  "Cost": 50.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Lube",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Tires & Tracks",

```

```

    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Ground Engaging Components",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Undefined Operation1",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined RE Operation",
    "Cost": 55.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Rented Equipment",
    "Cost": 56.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Materials",
    "Cost": 62.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Installed Equipment",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Installed Materials",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Construction Supplies",
    "Cost": 62.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Materials",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Subcontract",
    "Cost": 132.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Subcontract Price",
    "Cost": 64.0,
    "IsTerminalCostCategory": true
  }

```

```

    },
    {
      "Name": "Subcontract Conditions",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Subcontract Taxes",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Subcontract Bond",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Subcontract",
      "Cost": 68.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Fees",
      "Cost": 77.0,
      "IsTerminalCostCategory": false
    },
    {
      "Name": "Job Bond",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Job Insurance",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Business Taxes",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Sales Taxes",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Fees Undefined1",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Fees",
      "Cost": 77.0,
      "IsTerminalCostCategory": true
    },
    {

```

```

    "Name": "Allowance",
    "Cost": 84.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Risk Allowance",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Contingency Allowance",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Allowance",
    "Cost": 84.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Custom Category1",
    "Cost": 85.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Total",
    "Cost": 600.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Adjustment Allowance",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Finance Expense",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Supplies",
    "Cost": 59.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Undefined Supplies",
    "Cost": 59.0,
    "IsTerminalCostCategory": true
  }
],
"ProjectId": "190001",
"ProjectExternalId": "190001",
"PhaseCode": "1002",
"IsTerminal": true,
"CBSPosition": "1.1.1",
"IsActive": true,
"Suspend": false,

```



```

        "IsBudgetLocked": true,
        "CostItemId": 1808034,
        "CostItemSourceSystemID": "7870667f-14c8-c7b2-8121-3080714303ad",
        "PendingBudgetCost": 0.0,
        "CreatedBy": "InEight Service Account",
        "CreatedDate": "2023-04-17T21:50:00+00:00",
        "ModifiedBy": "Tom Smith",
        "ModifiedDate": "2023-05-31T17:11:20+00:00",
        "Currency": "USD"
    },
    {
        "OriginalBudgetQuantity": 3.0,
        "OriginalBudgetUnitOfMeasure": "PLS",
        "OriginalBudgetManHours": 0.0,
        "OriginalBudgetTotalCost": 900.0,
        "OriginalBudgetUnitCost": 300.0,
        "OriginalBudgetCostCategory": [
            {
                "Name": "Total",
                "Cost": 900.0,
                "IsTerminalCostCategory": false
            },
            {
                "Name": "Undefined Total",
                "Cost": 900.0,
                "IsTerminalCostCategory": true
            }
        ],
        "CurrentBudgetQuantity": 3.0,
        "CurrentBudgetUnitOfMeasure": "PLS",
        "CurrentBudgetManHours": 0.0,
        "CurrentBudgetTotalCost": 900.0,
        "CurrentBudgetUnitCost": 300.0,
        "CurrentBudgetCostCategory": [
            {
                "Name": "Total",
                "Cost": 900.0,
                "IsTerminalCostCategory": false
            },
            {
                "Name": "Undefined Total",
                "Cost": 900.0,
                "IsTerminalCostCategory": true
            }
        ],
        "CurrentEstimateQuantity": 3.0,
        "CurrentEstimateUnitOfMeasure": "PLS",
        "CurrentEstimateManHours": 0.0,
        "CurrentEstimateTotalCost": 900.0,
        "CurrentEstimateUnitCost": 300.0,
        "CurrentEstimateCostCategory": [
            {
                "Name": "Total",
                "Cost": 900.0,
                "IsTerminalCostCategory": false
            },
            {

```

```

        "Name": "Undefined Total",
        "Cost": 900.0,
        "IsTerminalCostCategory": true
    }
],
"ProjectId": "190001",
"ProjectExternalId": "190001",
"PhaseCode": "1003",
"IsTerminal": true,
"CBSPosition": "1.1.2",
"IsActive": true,
"Suspend": false,
"IsBudgetLocked": true,
"CostItemId": 1808035,
"CostItemSourceSystemID": "4190dde6-eea9-d312-99ff-4689ce25d576",
"PendingBudgetCost": 0.0,
"CreatedBy": "InEight Service Account",
"CreatedDate": "2023-04-17T21:50:00+00:00",
"ModifiedBy": "Tom Smith",
"ModifiedDate": "2023-05-31T17:11:20+00:00",
"Currency": "USD"
},
{
    "OriginalBudgetQuantity": 4.0,
    "OriginalBudgetUnitOfMeasure": "PLS",
    "OriginalBudgetManHours": 100.0,
    "OriginalBudgetTotalCost": 70.0,
    "OriginalBudgetUnitCost": 17.5,
    "OriginalBudgetCostCategory": [
        {
            "Name": "Total",
            "Cost": 70.0,
            "IsTerminalCostCategory": false
        },
        {
            "Name": "Labor",
            "Cost": 0.0,
            "IsTerminalCostCategory": false
        },
        {
            "Name": "Undefined Total",
            "Cost": 70.0,
            "IsTerminalCostCategory": true
        },
        {
            "Name": "Undefined Labor",
            "Cost": 0.0,
            "IsTerminalCostCategory": true
        }
    ],
    "CurrentBudgetQuantity": 4.0,
    "CurrentBudgetUnitOfMeasure": "PLS",
    "CurrentBudgetManHours": 100.0,
    "CurrentBudgetTotalCost": 70.0,
    "CurrentBudgetUnitCost": 17.5,
    "CurrentBudgetCostCategory": [
        {

```

```

        "Name": "Total",
        "Cost": 70.0,
        "IsTerminalCostCategory": false
    },
    {
        "Name": "Labor",
        "Cost": 0.0,
        "IsTerminalCostCategory": false
    },
    {
        "Name": "Undefined Total",
        "Cost": 70.0,
        "IsTerminalCostCategory": true
    },
    {
        "Name": "Undefined Labor",
        "Cost": 0.0,
        "IsTerminalCostCategory": true
    }
],
"CurrentEstimateQuantity": 4.0,
"CurrentEstimateUnitOfMeasure": "PLS",
"CurrentEstimateManHours": 100.0,
"CurrentEstimateTotalCost": 70.0,
"CurrentEstimateUnitCost": 17.5,
"CurrentEstimateCostCategory": [
    {
        "Name": "Total",
        "Cost": 70.0,
        "IsTerminalCostCategory": false
    },
    {
        "Name": "Undefined Labor",
        "Cost": 0.0,
        "IsTerminalCostCategory": true
    },
    {
        "Name": "Undefined Total",
        "Cost": 70.0,
        "IsTerminalCostCategory": true
    }
],
"ProjectId": "190001",
"ProjectExternalId": "190001",
"PhaseCode": "1004",
"IsTerminal": true,
"CBSPosition": "1.1.3",
"IsActive": true,
"Suspend": false,
"IsBudgetLocked": true,
"CostItemId": 1808036,
"CostItemSourceSystemID": "bc9cda37-e97a-ba4c-9ea1-3b3a04847514",
"PendingBudgetCost": 0.0,
"CreatedBy": "InEight Service Account",
"CreatedDate": "2023-04-17T21:50:00+00:00",
"ModifiedBy": "Tom Smith",
"ModifiedDate": "2023-05-31T17:11:20+00:00",

```

```
    "Currency": "USD"  
  }  
]  
}
```

Forecast (Generic) – Get

NOTE: When requesting a project's forecast information, the external project ID must be used in the request.

Direction	Request to retrieve information for a project	
Frequency	Determined by external system.	
Trigger Methods	Determined by external system.	
Average Payload Size	Entire entity – thousands to tens of thousands of records based on the size of the project	
APIM Name	List Live Forecast	
InEight Control	Starting Version	23.4
	Ending Version	

Fields

Depth	Name	Type	Precision ¹	Parent
1	@odata.context	String	500	
1	Value	Array	8	
2	ProjectDisplay	String	200	Value
2	ProjectExternalId	String	50	Value
2	CostItemId	Int		Value
2	WBSPHaseCode	String	50	Value
2	CBSPosition	String	100	Value
2	CostItemSourceSystemId	String	250	Value
2	IsActive	Boolean	N/A	Value
3	IsTerminal	Boolean	N/A	Value
3	Suspend	Boolean	N/A	Value
3	UOM	String	255	Value
2	Currency	String	250	Value
2	ForecastMethod	String	50	Value
2	AveragePerformanceSetting	String	250	Value
2	ForecastNotes	String	1000	Value
2	ForecastManHours	Decimal	22,11	Value
2	ForecastTotalCost	Decimal	22,11	Value

Depth	Name	Type	Precision ¹	Parent
3	CreatedBy	String	50	Value
3	CreatedDate ²	String	25	Value
3	ModifiedBy	String	50	Value
2	ModifiedDate ²	String	25	Value
2	ForecastCostCategory	Array	N/A	Value
2	Name	String	50	ForecastCostCategory
2	Cost	Decimal	22,11	ForecastCostCategory
2	IsTerminalCostCategory	Boolean	N/A	ForecastCostCategory

1 – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 – The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000

Field Descriptions

Name	Description	Example
@odata.context	http of where the information was requested.	https://test.ineight.com/integrations/\$metadata#ControlLiveForecast
Value	Array	
ProjectDisplay	Unique project display ID.	190001
ProjectExternalId	External project ID.	190001
CostItemId	Internal unique cost item ID	4
WBSPhaseCode	WBS phase code of a cost item.	1000
CBSPosition	Cost items CBS position.	430
CostItemSourceSystemId	Unique cost item ID for external purposes.	1000.1
IsActive	Determines if a cost item is being used.	
IsTerminal	Determines if a cost item is a terminal.	RE Repair Labor
Suspend	Determines if a cost item is suspended.	100
UOM	Unit of measure of a cost item.	True
Currency	Currency of a cost item.	100
ForecastMethod	Forecast method of a cost item.	PLS
AveragePerformanceSetting	Average performance setting of a cost item.	4
ForecastNotes	Last forecast note of a cost item.	430
ForecastManHours	Forecast man hours of a cost item.	4.3

Name	Description	Example
ForecastTotalCost	Forecast total cost of a cost item.	
CreatedBy	Name of the user that created the live forecast information.	John Doe
CreatedDate	Date created.	2023-04-18T21:10:28.42
ModifiedBy	Name of the user that made the last change.	John Doe
ModifiedDate	Date last modified.	2023-04-18T21:10:28.42
ForecastCostCategory	Array	
Name	Source system ID of a cost category.	RE Repair Labor
Cost	Cost of that cost category.	100
IsTerminalCostCategory	Current estimate unit cost of a cost item.	True

Sample JSON

```

{
  "@odata.context":
  "https://apitst.ineight.com/integrations/$metadata#ControlLiveForecast",
  "value": [
    {
      "ProjectDisplay": "190001",
      "ProjectExternalId": "190001",
      "CostItemID": 1808035,
      "WBSPhaseCode": "1003",
      "CBSPosition": "1.1.2",
      "CostItemSourceSystemId": "4190dde6-eea9-d312-99ff-4689ce25d576",
      "IsActive": true,
      "IsTerminal": true,
      "Suspend": false,
      "UOM": "PLS",
      "Currency": "USD",
      "ForecastMethod": "Current budget",
      "AveragePerformanceSetting": "",
      "ForecastNotes": "",
      "ForecastManHours": 11876.0,
      "ForecastTotalCost": 900.0,
      "CreatedBy": "InEight Service Account",
      "CreatedDate": "4/17/2023 9:50:00 PM",
      "ModifiedBy": "Tom Smith",
      "ModifiedDate": "5/31/2023 5:11:20 PM",
      "ForecastCostCategory": [
        {
          "Name": "Total",
          "Cost": 900.0,
          "IsTerminalCostCategory": false
        },
        {
          "Name": "Undefined Total",
          "Cost": 900.0,
          "IsTerminalCostCategory": true
        }
      ]
    }
  ]
}
    
```

```

    }
  ]
},
{
  "ProjectDisplay": "190001",
  "ProjectExternalId": "190001",
  "CostItemID": 1808030,
  "WBSPhaseCode": "1000",
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  "CreatedDate": "4/17/2023 9:49:56 PM",
  "ModifiedBy": "Tom Smith",
  "ModifiedDate": "5/31/2023 5:11:20 PM",
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    {
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      "Cost": 10.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Labor Burden",
      "Cost": 236.0,
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    {
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      "Cost": 0.0,
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    {
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    "IsTerminalCostCategory": true  
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  {  
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  {  
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    "Cost": 3.0,  
    "IsTerminalCostCategory": true  
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  {  
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    "Cost": 4.0,  
    "IsTerminalCostCategory": true  
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    "Cost": 24.0,  
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      "Cost": 9.0,
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    },
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      "IsTerminalCostCategory": true
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},
{
  "Name": "OE Overhead",
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},
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  "Cost": 0.0,
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},
{
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  "Cost": 0.0,
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    "Cost": 27.0,
    "IsTerminalCostCategory": true
  },
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{
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  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
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  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
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  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
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    "Suspend": false,
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    "IsActive": true,
    "IsTerminal": true,
    "Suspend": false,
    "UOM": "PLS",
    "Currency": "USD",
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    "ModifiedDate": "5/31/2023 5:11:20 PM",
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        {
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            "Cost": 10.0,
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        },
        {
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            "Cost": 236.0,
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        },
        {
            "Name": "Travel",
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      "IsTerminalCostCategory": true
    },
    {
      "Name": "Pension",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Vacation",
      "Cost": 70.0,
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      "Name": "Subsistence",
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      "Name": "Health & Welfare",
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    },
    {
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      "Cost": 1.0,
      "IsTerminalCostCategory": true
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      "Cost": 3.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Labor Fringes",
      "Cost": 4.0,
      "IsTerminalCostCategory": true
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  ],
  {
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{
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},
{
  "Name": "Workers Compensation",
  "Cost": 0.0,
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},
{
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  "Cost": 7.0,
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},
{
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},
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  "Cost": 0.0,
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        "Cost": 17.0,
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        "IsTerminalCostCategory": true
    },
    {
        "Name": "OE Cost of Facilities Capital (Cfc)",
        "Cost": 0.0,
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    },
    {
        "Name": "OE Insurance",
        "Cost": 0.0,
        "IsTerminalCostCategory": true
    },
    {
        "Name": "OE License",
        "Cost": 0.0,
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        "Cost": 0.0,
        "IsTerminalCostCategory": true
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    {
        "Name": "OE Overhaul Parts",
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        "IsTerminalCostCategory": true
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{
  "Name": "OE Operation",
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},
{
  "Name": "OE Repair Parts",
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{
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},
{
  "Name": "OE Fuel",
  "Cost": 0.0,
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{
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    "Cost": 172.0,  
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    "Cost": 38.0,  
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  },  
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  {  
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    "Cost": 0.0,  
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  {  
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    "Cost": 43.0,  
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  },  
  {  
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    "Cost": 44.0,  
    "IsTerminalCostCategory": true  
  },  
  {  
    "Name": "RE Overhaul Labor",  
    "Cost": 0.0,  
    "IsTerminalCostCategory": true  
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      "IsTerminalCostCategory": true
    },
    {
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      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
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      "Cost": 55.0,
      "IsTerminalCostCategory": true
    },
    {

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```
"Name": "Undefined Rented Equipment",
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{
  "Name": "Materials",
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  "IsTerminalCostCategory": false
},
{
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  "IsTerminalCostCategory": true
},
{
  "Name": "Installed Materials",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Construction Supplies",
  "Cost": 62.0,
  "IsTerminalCostCategory": true
},
{
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  "IsTerminalCostCategory": true
},
{
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  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
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  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Subcontract",
  "Cost": 68.0,
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```
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Fees",
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  },
  {
    "Name": "Job Bond",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Job Insurance",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Business Taxes",
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    "IsTerminalCostCategory": true
  },
  {
    "Name": "Sales Taxes",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Fees Undefined1",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Fees",
    "Cost": 77.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Allowance",
    "Cost": 84.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Risk Allowance",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Contingency Allowance",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Allowance",
    "Cost": 84.0,
    "IsTerminalCostCategory": true
  },
  },
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        {
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        {
            "Name": "Finance Expense",
            "Cost": 0.0,
            "IsTerminalCostCategory": true
        },
        {
            "Name": "Supplies",
            "Cost": 59.0,
            "IsTerminalCostCategory": false
        },
        {
            "Name": "Undefined Supplies",
            "Cost": 59.0,
            "IsTerminalCostCategory": true
        }
    ]
},
{
    "ProjectDisplay": "190001",
    "ProjectExternalId": "190001",
    "CostItemID": 1808031,
    "WBSPhaseCode": "1001",
    "CBSPosition": "1.1",
    "CostItemSourceSystemId": "506332ec-840a-6da7-8098-52d101a79776",
    "IsActive": true,
    "IsTerminal": false,
    "Suspend": false,
    "UOM": "PLS",
    "Currency": "USD",
    "ForecastMethod": "Rollup",
    "AveragePerformanceSetting": "",
    "ForecastNotes": "",
    "ForecastManHours": 36289.0,
    "ForecastTotalCost": 2966.0,
    "CreatedBy": "InEight Service Account",
    "CreatedDate": "4/17/2023 9:50:00 PM",
    "ModifiedBy": "Tom Smith",
    "ModifiedDate": "5/31/2023 5:11:20 PM",
    "ForecastCostCategory": [
        {
            "Name": "Total",
            "Cost": 2966.0,
        }
    ]
}

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    "Cost": 10.0,
    "IsTerminalCostCategory": true
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  {
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    "Cost": 236.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "Labor Fringes",
    "Cost": 160.0,
    "IsTerminalCostCategory": false
  },
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    "IsTerminalCostCategory": true
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    "IsTerminalCostCategory": true
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    "IsTerminalCostCategory": true
  },
  {
    "Name": "Savings",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Pension",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Vacation",
    "Cost": 70.0,
    "IsTerminalCostCategory": true
  },
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    "Cost": 80.0,
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  "IsTerminalCostCategory": true
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  "Cost": 3.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Labor Fringes",
  "Cost": 4.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Labor Insurance",
  "Cost": 24.0,
  "IsTerminalCostCategory": false
},
{
  "Name": "Bodily Injury & Property Damage",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Workers Compensation",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Insurancel",
  "Cost": 7.0,
  "IsTerminalCostCategory": true
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{
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  "Cost": 8.0,
  "IsTerminalCostCategory": true
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{
  "Name": "Undefined Labor Insurance",
  "Cost": 9.0,
  "IsTerminalCostCategory": true
},
{
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```

```

    "Cost": 52.0,
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    "IsTerminalCostCategory": true
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    "Cost": 12.0,
    "IsTerminalCostCategory": true
  },
  {
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    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
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    "Cost": 14.0,
    "IsTerminalCostCategory": true
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  {
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    "Cost": 15.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Labor Burden",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Undefined Labor",
    "Cost": 17.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "Owned Equipment",
    "Cost": 253.0,
    "IsTerminalCostCategory": false
  },
  {
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    "Cost": 90.0,
    "IsTerminalCostCategory": false
  },
  {
    "Name": "OE Depreciation",
    "Cost": 18.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "OE Overhead",
    "Cost": 19.0,
    "IsTerminalCostCategory": true
  }

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    },
    {
      "Name": "OE Cost of Facilities Capital (Cfc)",
      "Cost": 0.0,
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    },
    {
      "Name": "OE Insurance",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE License",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Taxes",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Overhaul Parts",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Overhaul Labor",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
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    {
      "Name": "OE Undefined Ownership1",
      "Cost": 26.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined OE Ownership",
      "Cost": 27.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Operation",
      "Cost": 127.0,
      "IsTerminalCostCategory": false
    },
    {
      "Name": "OE Repair Parts",
      "Cost": 28.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "OE Repair Labor",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
```

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"Name": "OE Fuel",
"Cost": 0.0,
"IsTerminalCostCategory": true
},
{
  "Name": "OE Lube",
  "Cost": 31.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "OE Tires & Tracks",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "OE Ground Engaging Components",
  "Cost": 33.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "OE Undefined Operation1",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
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{
  "Name": "Undefined OE Operation",
  "Cost": 35.0,
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  "Cost": 36.0,
  "IsTerminalCostCategory": true
},
{
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},
{
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  "Cost": 172.0,
  "IsTerminalCostCategory": false
},
{
  "Name": "RE Rent Expense",
  "Cost": 38.0,
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},
{
  "Name": "RE Overhead",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Finance Expense",
  "Cost": 0.0,
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```
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Insurance",
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  },
  {
    "Name": "RE License",
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    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Rental Taxes",
    "Cost": 43.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Overhaul Parts",
    "Cost": 44.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Overhaul Labor",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Undefined Rent1",
    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
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    "Cost": 47.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Operation",
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    "IsTerminalCostCategory": false
  },
  {
    "Name": "RE Repair Parts",
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    "IsTerminalCostCategory": true
  },
  {
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    "Cost": 0.0,
    "IsTerminalCostCategory": true
  },
  {
    "Name": "RE Fuel",
    "Cost": 50.0,
    "IsTerminalCostCategory": true
  },
  },
```

```

{
  "Name": "RE Lube",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "RE Tires & Tracks",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
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{
  "Name": "RE Ground Engaging Components",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
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{
  "Name": "RE Undefined Operation1",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
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  "IsTerminalCostCategory": true
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  "Name": "Undefined Rented Equipment",
  "Cost": 56.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Materials",
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  "IsTerminalCostCategory": false
},
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  "IsTerminalCostCategory": true
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  "Name": "Installed Materials",
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  "Cost": 62.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Materials",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
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```
"Cost": 132.0,
"IsTerminalCostCategory": false
},
{
  "Name": "Subcontract Price",
  "Cost": 64.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Subcontract Conditions",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Subcontract Taxes",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Subcontract Bond",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Undefined Subcontract",
  "Cost": 68.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Fees",
  "Cost": 77.0,
  "IsTerminalCostCategory": false
},
{
  "Name": "Job Bond",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Job Insurance",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Business Taxes",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
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{
  "Name": "Sales Taxes",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
},
{
  "Name": "Fees Undefined1",
  "Cost": 0.0,
  "IsTerminalCostCategory": true
}
```

```

    },
    {
      "Name": "Undefined Fees",
      "Cost": 77.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Allowance",
      "Cost": 84.0,
      "IsTerminalCostCategory": false
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    {
      "Name": "Risk Allowance",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Contingency Allowance",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Allowance",
      "Cost": 84.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Custom Category1",
      "Cost": 85.0,
      "IsTerminalCostCategory": true
    },
    {
      "Name": "Undefined Total",
      "Cost": 1570.0,
      "IsTerminalCostCategory": true
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    {
      "Name": "Adjustment Allowance",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
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    {
      "Name": "Finance Expense",
      "Cost": 0.0,
      "IsTerminalCostCategory": true
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    {
      "Name": "Supplies",
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      "IsTerminalCostCategory": false
    },
    {
      "Name": "Undefined Supplies",
      "Cost": 59.0,
      "IsTerminalCostCategory": true
    }
  ]

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```
    },
    {
      "ProjectDisplay": "190001",
      "ProjectExternalId": "190001",
      "CostItemID": 1808036,
      "WBSPhaseCode": "1004",
      "CBSPosition": "1.1.3",
      "CostItemSourceSystemId": "bc9cda37-e97a-ba4c-9ea1-3b3a04847514",
      "IsActive": true,
      "IsTerminal": true,
      "Suspend": false,
      "UOM": "PLS",
      "Currency": "USD",
      "ForecastMethod": "Current estimate",
      "AveragePerformanceSetting": "To date",
      "ForecastNotes": "",
      "ForecastManHours": 12537.0,
      "ForecastTotalCost": 70.0,
      "CreatedBy": "InEight Service Account",
      "CreatedDate": "4/17/2023 9:50:00 PM",
      "ModifiedBy": "Tom Smith",
      "ModifiedDate": "5/31/2023 5:11:20 PM",
      "ForecastCostCategory": [
        {
          "Name": "Total",
          "Cost": 70.0,
          "IsTerminalCostCategory": false
        },
        {
          "Name": "Undefined Total",
          "Cost": 70.0,
          "IsTerminalCostCategory": true
        }
      ]
    }
  ]
}
```

Time Phased Budget (Generic) – Get

NOTE:

When requesting the project time phased budget information, the external project ID must be used in the request.

Direction	Request to retrieve information for a project	
Frequency	Determined by external system	
Trigger Method(s)	External system	
Average Payload Size	Dependent on size and length of the project.	
APIM Name	List Time Phased Budget	
InEight Control	Starting Version	23.4
	Ending Version	
Configuration Entity Name	ControlTimePhasedBudget_Get	

Fields

Depth	Name	Type	Precision ¹	Parent
1	@odata.context	String	500	
1	Value	Array	N/A	
2	ProjectExternalID	String	200	Value
2	ProjectDisplay	String	200	Value
2	TimePhaseBudgetMapper	Array	NA	Value
3	PhaseCode	String	1	TimePhaseBudgetMapper
3	UnitofMeasure	String	1	TimePhaseBudgetMapper
3	Currency	String	1	TimePhaseBudgetMapper
3	CostCurve	String	1	TimePhaseBudgetMapper
3	Year	String	1	TimePhaseBudgetMapper
3	Month	String	1	TimePhaseBudgetMapper
3	BudgetCost	String	1	TimePhaseBudgetMapper
3	CostCategory	String	1	TimePhaseBudgetMapper
3	Cost	String	1	TimePhaseBudgetMapper
3	IsTerminalCostCategory	String	2	TimePhaseBudgetMapper
3	CBSPosition	String	2	TimePhaseBudgetMapper
3	CostItemSourceSystemId	String	2	TimePhaseBudgetMapper

Depth	Name	Type	Precision ¹	Parent
3	IsActive	String	2	TimePhaseBudgetMapper
3	CreatedBy	String	2	TimePhaseBudgetMapper
3	CreatedDate	String	2	TimePhaseBudgetMapper
3	ModifiedBy	String	2	TimePhaseBudgetMapper
3	ModifiedDate	String	2	TimePhaseBudgetMapper
2	TimPhaseBudgetValues	Array	N/A	
2	BatchSequence	Number	Integer	TimePhaseBudgetValues
2	BatchCount	Number	Integer	TimePhaseBudgetValues
2	LogTokenID	String	50	TimePhaseBudgetValues
3	TimePhaseBudget	Array	NA	TimePhaseBudgetValues
4	1	String	50	TimePhaseBudget
4	2	String	25	TimePhaseBudget
4	3	String	25	TimePhaseBudget
4	4	String	50	TimePhaseBudget
4	11	String	100	TimePhaseBudget
4	12	String	50	TimePhaseBudget
4	13	Boolean	N/A	TimePhaseBudget
4	14	String	50	TimePhaseBudget
4	15 ²	String	25	TimePhaseBudget
4	16	String	50	TimePhaseBudget
4	17 ²	String	25	TimePhaseBudget
4	BudgetPeriod	Array	N/A	TimePhaseBudget
5	5	String	4	BudgetPeriod
5	6	String	4	BudgetPeriod
5	7	Decimal	11,11	BudgetPeriod
5	BudgetCostCategory	Array	NA	BudgetPeriod
6	8	String	100	BudgetCostCategory
6	9	Decimal	11,11	BudgetCostCategory
6	10	Boolean	NA	BudgetCostCategory

1 - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 - The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000

Field Descriptions

Name	Description	Example
@odata.context		https://test.ineight.com/integrations/\$metadata#ControlTimePhasedBudget
Value	Array	
ProjectExternalId	Unique project display ID.	190001
ProjectDisplay	External project ID.	190001
TimePhaseBudgetMapper	Array header.	
PhaseCode	Defines the attribute that phase code is associated with in the JSON.	1
UnitofMeasure	Defines the attribute that unit of measure is associated with in the JSON.	2
Currency	Defines the attribute that currency is associated with in the JSON.	3
CostCurve	Defines the attribute that cost curve is associated with in the JSON.	4
Year	Defines the attribute that year is associated with in the JSON.	5
Month	Defines the attribute that month is associated with in the JSON.	6
BudgetCost	Defines the attribute that forecasted cost is associated with in the JSON.	7
CostCategory	Defines the attribute that cost category Source System ID is associated with in the JSON. See Appendix A .	8
Cost	Defines the attribute that period forecast amount is associated with in the JSON.	9
IsTerminalCostCategory	Defines the attribute that is terminal cost category indicator is associated with in the JSON.	10
CBSPosition	Defines the attribute that CBS Position indicator is associated with in the JSON.	11
CostItemSourceSystemId	Defines the attribute that cost item source system ID is associated with in the JSON.	12
IsActive	Defines the attribute that is active indicator is associated with in the JSON.	13
CreatedBy	Defines the attribute that created by indicator is associated with in the JSON.	14
CreatedDate	Defines the attribute that is created date is associated with in the JSON.	15
ModifiedBy	Defines the attribute that modified by is associated with in the JSON.	16

Name	Description	Example
ModifiedDate	Defines the attribute that modified date is associated with in the JSON.	17
TimPhaseBudgetValues	An array	
BatchSequence	If there is more than one batch for the interface, this defines the sequence in which this JSON should be read.	1
BatchCount	Defines if there is more than one batch for this interface.	1
LogTokenID	Identifier in the sync log sequence.	46654a33-103c-4598-aa6c-aed092d40d
TimePhaseBudget	An array.	
1	Associated to the phase code that was in the time phase budget mapper array.	1004
2	Associated to the unit of measure that was in the time phase budget mapper array.	Each
3	Associated to the currency that was in the time phase budget mapper array.	USD
4	Associated to the cost curve that was in the time phase budget mapper array.	Linear
11	Associated to the CBS position that was in the time phase budget mapper array.	1.1
12	Associated to the cost item source system ID that was in the time phase budget mapper array.	bc9cda37-e97a-ba4c-9ea1-3b3a04847514
13	Associated to the is active that was in the time phase budget mapper array.	True
14	Associated to the created by that was in the time phase budget mapper array.	John Doe
15	Associated to the created date that was in the time phase budget mapper array.	2023-04-17T21:50:00.617+00:00
16	Associated to the modified by that was in the time phase budget mapper array.	John Doe
17	Associated to the modified date that was in the time phase budget mapper array.	2023-04-17T21:50:00.617+00:00
BudgetPeriod	An array.	
5	Associated to the year that was in the time phase budget mapper array.	2020
6	Associated to the month that was in the time phase budget mapper array.	3
7	Associated to the period budgeted cost that was in the time phase budget mapper array.	1000
BudgetCostCategory	An Array	

Name	Description	Example
8	Associated to the Source System ID of the cost category to associate the budgeted cost with what was in the time phase budget mapper array. See Appendix A .	Undefined Total
9	Associated to the amount of time phased budget for that cost category for the period what was in the time phase budget mapper array.	500
10	Associated to the Is terminal cost category that was in the time phase budget mapper array.	True

Sample JSON

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{
  "@odata.context":
  "https://apitst.ineight.com/integrations/$metadata#ControlTimePhasedBudget",
  "value": [
    {
      "ProjectExternalId": "190001",
      "ProjectDisplay": "190001",
      "TimePhaseBudgetMapper": {
        "PhaseCode": "1",
        "UnitOfMeasure": "2",
        "Currency": "3",
        "CostCurve": "4",
        "Year": "5",
        "Month": "6",
        "BudgetCost": "7",
        "Costcategory": "8",
        "Cost": "9",
        "IsTerminalCostCategory": "10",
        "CBSPosition": "11",
        "CostItemSourceSystemId": "12",
        "IsActive": "13",
        "CreatedBy": "14",
        "CreatedDate": "15",
        "ModifiedBy": "16",
        "ModifiedDate": "17"
      },
      "TimePhaseBudgetValues": {
        "BatchSequence": 1,
        "BatchCount": 1,
        "LogTokenId": "71a22879-f3af-4b09-a7ca-fe20497797bf",
        "TimePhaseBudget": [
          {
            "1": "1005",
            "2": "PLS",
            "3": "USD",
            "4": "Linear",
            "11": "1.2",
            "12": "1c4344a1-2eea-86f2-97a1-1ddd1adf12d2",
            "13": true,
            "14": "InEight Service Account",
            "15": "2023-04-17T21:50:00.103+00:00",
          }
        ]
      }
    }
  ]
}
```

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"16": "Tom Smith",
"17": "2023-06-15T13:29:43.817+00:00",
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    "6": "6",
    "7": 10000.0,
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        "9": 10000.0,
        "10": false
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      {
        "8": "Undefined Total",
        "9": 10000.0,
        "10": true
      }
    ]
  }
]
},
{
  "1": "1002",
  "2": "PLS",
  "3": "USD",
  "4": "Linear",
  "11": "1.1.1",
  "12": "7870667f-14c8-c7b2-8121-3080714303ad",
  "13": true,
  "14": "InEight Service Account",
  "15": "2023-04-17T21:50:00.617+00:00",
  "16": "Tom Smith",
  "17": "2023-06-15T13:29:43.817+00:00",
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      "7": 21.69565217391,
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          "10": false
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          "9": 2.85869565217,
          "10": false
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        {
          "8": "Labor Base",
          "9": 0.10869565217,
          "10": true
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        {
          "8": "Labor Burden",

```

```

        "9": 2.5652173913,
        "10": false
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    {
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        "10": true
    },
    {
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        "9": 0.86956521739,
        "10": true
    },
    {
        "8": "Apprenticeship",
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        "10": true
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    {
        "8": "Undefined Fringe2",
        "9": 0.03260869565,
        "10": true
    },
    {
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        "10": true
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        "9": 0.26086956522,
        "10": false
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    {
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        "10": true
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  "10": true
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    {
      "8": "OE Repair Parts",
      "9": 0.30434782609,
      "10": true
    },
    {
      "8": "OE Lube",
      "9": 0.33695652174,
      "10": true
    },
    {
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      "9": 0.35869565217,
      "10": true
    },
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      "9": 0.38043478261,
      "10": true
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    {
      "8": "Undefined Owned Equipment",
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      "10": true
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    {
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      "9": 4.14130434783,
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      "9": 1.8695652174,
      "10": false
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  {
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  {
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  {
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    "9": 0.60869565217,
    "10": true
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    "9": 0.67391304348,
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  {
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    "9": 0.67391304348,
    "10": true
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  {
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  {
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  {
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    "9": 0.73913043478,
    "10": true
  },
  },

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    {
      "8": "Undefined Allowance",
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      "10": true
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    {
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      "10": true
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    {
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    {
      "8": "Supplies",
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    },
    {
      "8": "Undefined Supplies",
      "9": 0.64130434783,
      "10": true
    }
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},
{
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    {
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      "9": 85.76086956522,
      "10": false
    }
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{
  "8": "Labor Base",
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{
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{
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{
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  "9": 22.82608695652,
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{
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},
{
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  "9": 0.32608695652,
  "10": true
},
{
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  "9": 0.65217391304,
  "10": true
},
{
  "8": "Undefined Fringe2",
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  "10": true
},
{
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{
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    {
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    {
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    {
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      "8": "OE Overhead",
      "9": 6.19565217391,
      "10": true
    }
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}

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},
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},
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},
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  "8": "OE Lube",
  "9": 10.10869565217,
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{
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```

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      "10": true
    },
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      "10": true
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      "10": true
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      "10": false
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        "10": true
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        "8": "Undefined Supplies",
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        "10": true
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  {
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  {
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  {
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    "10": true
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    "9": 8.08695652173,
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{
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  "10": true
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  "10": true
},
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{
  "8": "Construction Supplies",
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        "10": true
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        "8": "Undefined Supplies",
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        "10": true
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},
{

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    "9": 85.76086956522,
    "10": false
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  {
    "8": "Labor Base",
    "9": 3.26086956522,
    "10": true
  },
  {
    "8": "Labor Burden",
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]
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Time Phased Forecast (Generic) – Get

NOTE:

When requesting a project's forecast time phased information, the external project ID must be used in the request.

Direction	Request to retrieve information for a project	
Frequency	Determined by external system	
Trigger Method(s)	External system	
Average Payload Size	Dependent on size and length of the project.	
APIM Name	List Time Phased Forecast	
InEight Control	Starting Version	23.4
	Ending Version	
Configuration Entity Name	ControlTimePhasedForecast_Get	

Fields

Depth	Name	Type	Precision ¹	Parent
1	@odata.context	String	500	
1	Value	Array	N/A	
2	ProjectExternalID	String	200	Value
2	ProjectDisplay	String	200	Value
2	TimePhaseForecastMapper	Array	NA	
3	PhaseCode	String	1	TimePhaseForecastMapper
3	UnitofMeasure	String	1	TimePhaseForecastMapper
3	Currency	String	1	TimePhaseForecastMapper
3	CostCurve	String	1	TimePhaseForecastMapper
3	ForecastMethod	String	1	TimePhaseForecastMapper
3	Year	String	1	TimePhaseForecastMapper
3	Month	String	1	TimePhaseForecastMapper
3	ForecastCost	String	1	TimePhaseForecastMapper
3	RemainingCost	String	1	TimePhaseForecastMapper
3	Name	String	2	TimePhaseForecastMapper
3	Amount	String	2	TimePhaseForecastMapper
3	IsTerminalCostCategory	String	2	TimePhaseForecastMapper

Depth	Name	Type	Precision ¹	Parent
3	ForecastManhours	String	2	TimePhaseForecastMapper
3	ForecastQuantity	String	2	TimePhaseForecastMapper
3	EnableForecastMethod	String	2	TimePhaseForecastMapper
3	AveragePerformanceSetting	String	2	TimePhaseForecastMapper
3	CBSPosition	String	2	TimePhaseForecastMapper
3	CostItemSourceSystemId	String	2	TimePhaseForecastMapper
3	IsActive	String	2	TimePhaseForecastMapper
3	CreatedBy	String	2	TimePhaseForecastMapper
3	CreatedDate	String	2	TimePhaseForecastMapper
3	ModifiedBy	String	2	TimePhaseForecastMapper
3	ModifiedDate	String	2	TimePhaseForecastMapper
2	TimePhaseForecastValues	Array	N/A	
3	ProjectID	String	200	TimePhaseForecastValues
3	BatchSequence	Number	Integer	TimePhaseForecastValues
3	BatchCount	Number	Integer	TimePhaseForecastValues
3	LogTokenID	String	50	TimePhaseForecastValues
3	TimePhaseForecast	Array	NA	TimePhaseForecastValues
4	1	String	50	TimePhaseForecast
4	2	String	25	TimePhaseForecast
4	3	String	25	TimePhaseForecast
4	4	String	50	TimePhaseForecast
4	5	String	50	TimePhaseForecast
4	15	Boolean	N/A	TimePhaseForecast
4	16	String	100	TimePhaseForecast
4	17	String	100	TimePhaseForecast
4	18	String	100	TimePhaseForecast
4	19	Boolean	N/A	TimePhaseForecast
4	20	String	50	TimePhaseForecast
4	21 ²	String	25	TimePhaseForecast
4	22	String	50	TimePhaseForecast
4	23 ²	String	25	TimePhaseForecast
4	ForecastPeriod	Array	N/A	TimePhaseForecast
5	6	String	4	ForecastPeriod
5	7	String	4	ForecastPeriod

Depth	Name	Type	Precision ¹	Parent
5	8	Decimal	11,11	ForecastPeriod
5	9	Decimal	11,11	ForecastPeriod
5	ForecastCostCategory	Array	NA	ForecastPeriod
6	10	String	100	ForecastCostCategory
6	11	Decimal	11,11	ForecastCostCategory
6	12	Boolean	NA	ForecastCostCategory
5	13	Decimal	11,11	ForecastPeriod
5	14	Decimal	11,11	ForecastPeriod

1 - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 - The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000

Field Descriptions

Name	Description	Example
@odata.context		https://test.ineight.com/integrations/\$metadata#ControlTimePhasedForecast
Value	Array	
ProjectExternalId	Unique project display ID	190001
ProjectDisplay	Project external ID	190001
TimePhaseForecastMapper	Array header.	
PhaseCode	Defines the attribute that phase code is associated with in the JSON.	1
UnitofMeasure	Defines the attribute that unit of measure is associated with in the JSON.	2
Currency	Defines the attribute that currency is associated with in the JSON.	3
CostCurve	Defines the attribute that cost curve is associated with in the JSON.	4
ForecastMethod	Defines the attribute that forecast method is associated with in the JSON.	5
Year	Defines the attribute that year is associated with in the JSON.	6
Month	Defines the attribute that month is associated with in the JSON.	7

Name	Description	Example
ForecastedCost	Defines the attribute that forecasted cost is associated with in the JSON.	8
RemainingCost	Defines the attribute that remaining cost is associated with in the JSON.	9
Name	Defines the attribute that cost category source system ID is associated with in the JSON. See Appendix A .	10
Amount	Defines the attribute that period forecast amount is associated with in the JSON.	11
IsTerminalCostCategory	Defines the attribute that is terminal cost category indicator is associated with in the JSON.	12
ForecastManhours	Defines the attribute that forecast manhours is associated with in the JSON.	13
ForecastQuantity	Defines the attribute that forecast quantity is associated with in the JSON.	14
EnabledForecastMethod	Defines the attribute that enable forecast method is associated with in the JSON.	15
AveragePerformanceSetting	Defines the attribute that forecast quantity is associated with in the JSON.	16
CBSPosition	Defines the attribute that CBS position indicator is associated with in the JSON.	17
CostItemSourceSystemId	Defines the attribute that the cost item source system ID is associated with in the JSON.	18
IsActive	Defines the attribute that is active indicator is associated with in the JSON.	19
CreatedBy	Defines the attribute that created by indicator is associated with in the JSON.	20
CreatedDate	Defines the attribute that is created date is associated with in the JSON.	21
ModifiedBy	Defines the attribute that modified by is associated with in the JSON.	22
ModifiedDate	Defines the attribute that modified date is associated with in the JSON.	23
TimPhaseForecastValues	An array	
BatchSequence	If there is more than one batch for the interface, this defines the sequence in which this JSON should be read.	1
BatchCount	Defines if there is more than one batch for this interface.	1
LogTokenID	Identifier in the sync log sequence.	46654a33-103c-4598-aa6c-aed092d40d
TimePhaseForecast	An array.	
1	Associated to the phase code that was in the time phase forecast mapper array.	1004

Name	Description	Example
2	Associated to the unit of measure that was in the time phase forecast mapper array.	Each
3	Associated to the currency that was in the time phase forecast mapper array.	USD
4	Associated to the cost curve that was in the time phase forecast mapper array.	Linear
5	Associated to the forecast method that was in the time phase forecast mapper array.	Current Estimate
15	Associated to the enable forecast method that was in the time phase forecast mapper array.	True
16	Associated to the average performance setting that was in the time phase forecast mapper array.	To date
17	Associated to the cbs position that was in the time phase forecast mapper array.	1.1
18	Associated to the cost item source system ID that was in the time phase forecast mapper array.	bc9cda37-e97a-ba4c-9ea1-3b3a04847514
19	Associated to the is active that was in the time phase forecast mapper array.	True
20	Associated to the created by that was in the time phase forecast mapper array.	John Doe
21	Associated to the created date that was in the time phase forecast mapper array.	2023-04-17T21:50:00.617+00:00
22	Associated to the modified by that was in the time phase forecast mapper array.	John Doe
23	Associated to the modified date that was in the time phase forecast mapper array.	2023-04-17T21:50:00.617+00:00
ForecastPeriod	An array.	
6	Associated to the year that was in the time phase forecast mapper array.	2020
7	Associated to the month that was in the time phase forecast mapper array.	3
8	Associated to the period budgeted cost that was in the time phase forecast mapper array.	1000
ForecastCostCategory	An Array	
10	Associated to the source system ID of the cost category to associate the budgeted cost with what was in the time phase forecast mapper array. See Appendix A .	Undefined Total
11	Associated to the amount of time phased forecast for that cost category for the period what was in the time phase forecast mapper array.	500
12	Associated to the Is terminal cost category that was in the time phase forecast mapper array.	True

Name	Description	Example
13	Associated to the forecast manhours that was in the time phase forecast mapper array.	6.7
14	Associated to the forecast quantity that was in the time phase forecast mapper array.	1.2

Sample JSON

```
{
  "@odata.context":
  "https://apitst.ineight.com/integrations/$metadata#ControlTimePhasedForecast",
  "value": [
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      "ProjectExternalId": "190001",
      "ProjectDisplay": "190001",
      "TimePhaseForecastMapper": {
        "PhaseCode": "1",
        "UnitOfMeasure": "2",
        "Currency": "3",
        "CostCurve": "4",
        "ForecastMethod": "5",
        "Year": "6",
        "Month": "7",
        "ForecastedCost": "8",
        "RemainingCost": "9",
        "Name": "10",
        "Amount": "11",
        "IsTerminalCostCategory": "12",
        "ForecastManhours": "13",
        "ForecastQuantity": "14",
        "EnabledForecastMethod": "15",
        "AveragePerformanceSetting": "16",
        "CBSPosition": "17",
        "CostItemSourceSystemId": "18",
        "IsActive": "19",
        "CreatedBy": "20",
        "CreatedDate": "21",
        "ModifiedBy": "22",
        "ModifiedDate": "23"
      },
      "TimePhaseForecastValues": {
        "ProjectId": "14170",
        "BatchSequence": 1,
        "BatchCount": 1,
        "LogTokenId": "bb856816-ef65-4c01-96bc-82c14c886c6d",
        "TimePhaseForecast": [
          {
            "1": "1000",
            "2": "PLS",
            "3": "USD",
            "4": "Linear",
            "5": "Rollup",
            "15": true,
            "16": ""
          }
        ]
      }
    }
  ]
}
```

```

"17": "1",
"18": "197e9ebf-3381-445d-94be-425c9c7309a4",
"19": true,
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"21": "2023-04-17T22:58:09.8066667",
"22": "InEight Service Account",
"23": "2023-05-31T16:54:54.2333333",
"ForecastPeriod": [
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    "7": "5",
    "8": 1996.0,
    "9": 0.0,
    "ForecastCostCategory": [
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        "11": 1995.9999999999999,
        "12": false
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      {
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        "11": 12.7376098127,
        "12": false
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      {
        "10": "Undefined Fees",
        "11": 12.7376098127,
        "12": true
      },
      {
        "10": "Allowance",
        "11": 13.89557434112,
        "12": false
      },
      {
        "10": "Undefined Allowance",
        "11": 13.89557434112,
        "12": true
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      {
        "10": "Custom Category1",
        "11": 14.06099784518,
        "12": true
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        "10": "Undefined Total",
        "11": 1765.06878833085,
        "12": true
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        "11": 9.7599867396,
        "12": false
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      {
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        "11": 9.7599867396,

```

```

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    {
        "10": "Labor",
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    {
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        "12": false
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    {
        "10": "Labor Taxes",
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        "12": false
    },
    {
        "10": "FICA",
        "11": 1.81965854467,
        "12": true
    },
    {
        "10": "FUTA",
        "11": 1.98508204873,
        "12": true
    },
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        "11": 2.31592905685,
        "12": true
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        "12": false
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    {
        "10": "OE Depreciation",
        "11": 2.9776230731,
        "12": true
    },
    },

```

```

{
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{
  "10": "OE Undefined Ownership1",
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},
{
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},
{
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},
{
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},
{
  "10": "OE Lube",
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},
{
  "10": "OE Ground Engaging Components",
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},
{
  "10": "Undefined OE Operation",
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  "11": 28.45284269849,
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{
  "10": "RE Rent Expense",

```



```

        "11": 6.28609315432,
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    {
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    {
        "10": "RE Overhaul Parts",
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    {
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    },
    {
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    {
        "10": "RE Repair Parts",
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    {
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        "12": true
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    {
        "10": "Undefined RE Operation",
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    {
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    {
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},
{
  "10": "Labor Fringes",
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{
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{
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{
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```

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        "10": "Undefined Labor Insurance",
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        "12": true
    }
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"13": 0.0,
"14": 0.16542350406
},
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    "8": 68.70229007634,
    "9": 0.0,
    "ForecastCostCategory": [
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            "12": false
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        {
            "10": "Fees",
            "11": 0.43842833879,
            "12": false
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        {
            "10": "Undefined Fees",
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            "12": true
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        {
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    "11": 0.06263261983,
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```

```
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{
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{
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},
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{
  "10": "OE Ground Engaging Components",
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```

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    "9": 0.0,
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```

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    {
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    {
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    {
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    {
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},
{
  "10": "OE Depreciation",
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  "12": true
},
{
  "10": "OE Overhead",
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},
{
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},
{
  "10": "OE Lube",
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{
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```

"11": 0.20592846216,
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{
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{
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{
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  "12": false
},
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  "11": 17.0,
  "12": true
},
{
  "10": "Owned Equipment",
  "11": 253.0,
  "12": false
},
{
  "10": "OE Ownership",
  "11": 90.0,
  "12": false
},
{
  "10": "OE Depreciation",
  "11": 18.0,
  "12": true
},
{
  "10": "OE Overhead",
  "11": 19.0,
  "12": true
},
{
  "10": "OE Undefined Ownership1",
```



```

        "11": 26.0,
        "12": true
    },
    {
        "10": "Undefined OE Ownership",
        "11": 27.0,
        "12": true
    },
    {
        "10": "OE Operation",
        "11": 127.0,
        "12": false
    },
    {
        "10": "OE Repair Parts",
        "11": 28.0,
        "12": true
    },
    {
        "10": "Fees",
        "11": 77.0,
        "12": false
    },
    {
        "10": "Undefined Fees",
        "11": 77.0,
        "12": true
    },
    {
        "10": "Allowance",
        "11": 84.0,
        "12": false
    },
    {
        "10": "Undefined Allowance",
        "11": 84.0,
        "12": true
    },
    {
        "10": "Custom Category1",
        "11": 85.0,
        "12": true
    },
    {
        "10": "Undefined Total",
        "11": 600.0,
        "12": true
    },
    {
        "10": "Supplies",
        "11": 59.0,
        "12": false
    },
    {
        "10": "Undefined Supplies",
        "11": 59.0,
        "12": true
    }

```

```
    },
    {
      "10": "OE Lube",
      "11": 31.0,
      "12": true
    },
    {
      "10": "OE Ground Engaging Components",
      "11": 33.0,
      "12": true
    },
    {
      "10": "Undefined OE Operation",
      "11": 35.0,
      "12": true
    },
    {
      "10": "Undefined Owned Equipment",
      "11": 36.0,
      "12": true
    },
    {
      "10": "Rented Equipment",
      "11": 381.0,
      "12": false
    },
    {
      "10": "RE Rental",
      "11": 172.0,
      "12": false
    },
    {
      "10": "RE Rent Expense",
      "11": 38.0,
      "12": true
    },
    {
      "10": "RE Rental Taxes",
      "11": 43.0,
      "12": true
    },
    {
      "10": "RE Overhaul Parts",
      "11": 44.0,
      "12": true
    },
    {
      "10": "Undefined RE Rental",
      "11": 47.0,
      "12": true
    },
    {
      "10": "RE Operation",
      "11": 153.0,
      "12": false
    },
  },
  {
```

```

"10": "RE Repair Parts",
"11": 48.0,
"12": true
},
{
  "10": "RE Fuel",
  "11": 50.0,
  "12": true
},
{
  "10": "Undefined RE Operation",
  "11": 55.0,
  "12": true
},
{
  "10": "Undefined Rented Equipment",
  "11": 56.0,
  "12": true
},
{
  "10": "Materials",
  "11": 62.0,
  "12": false
},
{
  "10": "Construction Supplies",
  "11": 62.0,
  "12": true
},
{
  "10": "Subcontract",
  "11": 132.0,
  "12": false
},
{
  "10": "Subcontract Price",
  "11": 64.0,
  "12": true
},
{
  "10": "Undefined Subcontract",
  "11": 68.0,
  "12": true
},
{
  "10": "Labor Base",
  "11": 10.0,
  "12": true
},
{
  "10": "Labor Fringes",
  "11": 160.0,
  "12": false
},
{
  "10": "Vacation",
  "11": 70.0,

```

```

        "12": true
      },
      {
        "10": "Subsistence",
        "11": 80.0,
        "12": true
      },
      {
        "10": "Apprenticeship",
        "11": 1.0,
        "12": true
      },
      {
        "10": "Undefined Fringe1",
        "11": 2.0,
        "12": true
      },
      {
        "10": "Undefined Fringe2",
        "11": 3.0,
        "12": true
      },
      {
        "10": "Undefined Labor Fringes",
        "11": 4.0,
        "12": true
      },
      {
        "10": "Labor Insurance",
        "11": 24.0,
        "12": false
      },
      {
        "10": "Undefined Insurancel1",
        "11": 7.0,
        "12": true
      },
      {
        "10": "Undefined Insurance2",
        "11": 8.0,
        "12": true
      },
      {
        "10": "Undefined Labor Insurance",
        "11": 9.0,
        "12": true
      }
    ],
    "13": 0.0,
    "14": 2.0
  }
],
{
  "1": "1003",
  "2": "PLS",
  "3": "USD",

```



```

    {
      "6": "2024",
      "7": "3",
      "8": 0.0,
      "9": 0.0,
      "ForecastCostCategory": [],
      "13": 0.0,
      "14": 0.60784313725
    },
    {
      "6": "2024",
      "7": "4",
      "8": 0.0,
      "9": 0.0,
      "ForecastCostCategory": [],
      "13": 0.0,
      "14": 0.58823529412
    },
    {
      "6": "2024",
      "7": "5",
      "8": 0.0,
      "9": 0.0,
      "ForecastCostCategory": [],
      "13": 0.0,
      "14": 0.52941176471
    }
  ]
},
{
  "1": "1004",
  "2": "PLS",
  "3": "USD",
  "4": "Linear",
  "5": "Current estimate",
  "15": true,
  "16": "",
  "17": "1.1.3",
  "18": "bc9cda37-e97a-ba4c-9ea1-3b3a04847514",
  "19": true,
  "20": "",
  "21": "2023-05-31T19:20:41.2807881",
  "22": "",
  "23": "2023-05-31T19:20:41.2807881",
  "ForecastPeriod": [
    {
      "6": "2023",
      "7": "5",
      "8": 0.0,
      "9": 0.0,
      "ForecastCostCategory": [],
      "13": 0.0,
      "14": 0.0
    }
  ]
}
]

```

```
}  
  }  
  ]  
}
```

Live Forecast (Generic) - Post

Direction	Request to post live forecast information for a project	
Frequency	Determined by external system	
Trigger Method(s)	External system	
Average Payload Size	Dependent on size and length of the project.	
APIM Name	Upsert Live Forecast	
InEight Control	Starting Version	23.4
	Ending Version	
<u>Configuration Entity Name</u>	LiveForecastImport	

Fields

Depth	Name	Type	Precision ¹	Parent
1	ProjectDisplay	String	50	
1	ForecastDetails	Array	NA	
2	PhaseCode	String	50	ForecastDetails
2	CBSPosition	String	100	ForecastDetails
2	CostItemSourceSystemId	String	50	ForecastDetails
2	ForecastMHR	String	22	ForecastDetails
2	ForecastNotes	String	250	ForecastDetails
2	ForecastCosts	Array	N/A	
3	Name	String	1	ForecastCosts
3	Amount	Decimal	11,11	ForecastCosts

¹ - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
ProjectDisplay	External project ID, which is unique for a project.	190001
ForecastDetails	Array header	
PhaseCode	Phase code for the cost item to be updated.	1000

Name	Description	Example
CBSPosition	CBS position for the cost item to be updated.	1
CostItemSourceSystemId	Cost item source system ID for the cost item to be updated.	190001.1000
ForecastMHR	Forecast manhours for the cost item.	4
ForecastNotes	Forecast notes for the cost item.	This is a note
ForecastCosts	Array header	
Name	Cost category source system ID for the amount specified. See Appendix A .	Undefined Total
Amount	Forecast cost for the cost category for the cost item.	15000

Sample JSON

```

{
  "ProjectDisplay": "190000",
  "ForecastDetails": [
    {
      "PhaseCode": "1002",
      "ForecastMHR": "100",
      "ForecastNotes": "This is a test",
      "ForecastCosts": [
        {
          "Name": "Undefined Total",
          "Amount": 10000.0
        },
        {
          "Name": "Labor Base",
          "Amount": 20000.0
        }
      ]
    }
  ]
}
    
```

Time Phased Forecast (Generic) - Post

Direction		Request from ERP to post time phased forecast information for a project.
Frequency		Determined by external system.
Trigger Method(s)		Determined by external system.
Average Payload Size		Dependent on size and length of the project.
APIM Name		Upsert Time Phased Forecast
InEight Control	Starting Version	23.6
	Ending Version	
Configuration Entity Name		TimePhasedForecastImport

Fields

Depth	Name	Type	Precision ¹	Parent
1	ProjectDisplay	String	50	
1	TimePhasedForecastDetails	Array	NA	
2	PhaseCode	String	50	TimePhasedForecastDetails
2	CBSPosition	String	100	TimePhasedForecastDetails
2	StaticManualTimePhasedForecast	String	10	TimePhasedForecastDetails
2	ForecastNotes	String	250	TimePhasedForecastDetails
2	TimePhasedForecastPeriodDetails	Array	NA	TimePhasedForecastDetails
3	Month	String	2	TimePhasedForecastPeriodDetails
3	Year	String	4	TimePhasedForecastPeriodDetails
3	ForecastCost	String	22	TimePhasedForecastPeriodDetails
3	Quantity	Decimal	11,11	TimePhasedForecastPeriodDetails
3	ManHours	String	22	TimePhasedForecastPeriodDetails
3	RemainingCost	String	22	TimePhasedForecastPeriodDetails
3	RemainingQuantity	String	22	TimePhasedForecastPeriodDetails
3	RemainingManHours	String	22	TimePhasedForecastPeriodDetails

¹ - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

Field Descriptions

Name	Description	Example
ProjectDisplay	External project ID, which is unique for a project.	190001
TimePhasedForecastDetails	Array header	
PhaseCode	Phase code for the cost item to be updated.	1000
CBSPosition	CBS position for the cost item to be updated.	1
StaticManualTimePhasedForecast	Determines if the time phased forecast should adjust or remain the same when manually entered. NOTE: This field is only recognized in the payload if there is a difference in the values that were sent in the TimePhasedForecastPeriodDetails. If there are no differences in the sum of values in the fiscal periods, StaticManualTimePhasedForecast will not be set.	True
ForecastNotes	Notes on the forecast	This is a note
TimePhasedForecastPeriodDetails	Array header	
Month	Month for the forecast.	08
Year	Year for the forecast.	2023
ForecastCost	Forecast cost for the fiscal period.	15000
Quantity	Forecast quantity for the fiscal period.	200
ManHours	Forecast manhours for the fiscal period.	300
RemainingCost	Remaining forecast cost for the closing current fiscal period.	400
RemainingQuantity	Remaining forecast quantity for the closing current fiscal period.	10
RemainingManHours	Remaining forecast manhours for the closing current fiscal period.	12

Sample JSON

```

{
  "ProjectDisplayID": "190000",
  "TimePhasedForecastDetails": [
    {
      "PhaseCode": "1020",
      "CBSPosition": "",
      "StaticManualTimePhasedForecast": "True",
      "ForecastNotes": "",
      "TimePhasedForecastPeriodDetails": [
        {
          "Month": "08",
          "Year": 2023,
          "ForecastCost": "200",
          "Quantity": 100,

```

```

    "ManHours": "10",
    "RemainingCost": "",
    "RemainingQuantity": "",
    "RemainingManHours": ""
  }
]
},
{
  "PhaseCode": "1021",
  "CBSPosition": "",
  "StaticManualTimePhasedForecast": "True",
  "ForecastNotes": "",
  "TimePhasedForecastPeriodDetails": [
    {
      "Month": "08",
      "Year": 2023,
      "ForecastCost": "300",
      "Quantity": 200,
      "ManHours": "100",
      "RemainingCost": "",
      "RemainingQuantity": "",
      "RemainingManHours": ""
    }
  ]
}
]
}

```

Integration Status

There are multiple ways to get the status associated with the Time Phased Forecast post depending on the issue or how the customer wants to view the status of the integration.

- Results are available via the Import history tab in the Audit log, which includes status and processing details including any errors.
- A location field is available in the results in the response header.

Example:

Location <https://qa.hds.ineight.com/ExternalSystem//Messages/Status?messageId=772d849e-4739-4e34-9467-0da05b9434e0>

A system must be able to go to that URI and see if the API was successful or failed.

Example:

Success

```

{
  "Status": "Success",
  "CorrelationID": "fd058d5f-d22f-4056-8c72-6c25265707f0",
  "ProjectDisplay": "103093",
  "ErrorDetails": []
}

```

Failure

```

{

```

```

"Status": "Failed",
"CorrelationID": "de068edb-b9ac-4281-8a08-7926ae2fe316",
"ProjectDisplay": "GoldenSnapshot26072022180836",
"ErrorDetails": [
  {
    "ErrorCode": 14009,
    "ErrorDescription": "The Forecast method is invalid",
    "CostItemList": [
      {
        "Code": "1007"
      }
    ]
  }
]
}

```

Error Codes

10029	System Error. Kindly Try again later
14001	WBS phase code match not found
14002	CBS Position code match not found
14003	WBS phase code or the CBS Position is required
14004	The project is required
14005	The project id is not valid
14007	Only numerical values accepted
14008	Value exceeds maximum size
14009	The Forecast method is invalid
14010	The Forecast method Manual(ETC) is invalid
14011	The Forecast method is invalid, with the Allow as-built
14012	Duplicate entries for the same cost item
14013	The forecast method at the parent is None
14016	Forecast in a closed fiscal period is not available to update
14017	Forecast remaining is not allowed to be modified
14018	Forecast notes are required
14019	Time phased forecast is not enabled on the project. Updating time phased forecast is not available
14020	Time phased forecast is not allowed on this cost item

Change Order (Generic) – Get

NOTE:

When requesting change order information for a project, the external project ID must be used in the request. Refer to the API definition Request parameters section in the [InEight API Developer Portal](#) for the list of required parameters in the request.

Direction	Request to retrieve information for a project	
Frequency	Determined by external system.	
Trigger Methods	Determined by external system.	
Average Payload Size	Entire entity – thousands to tens of thousands of records based on the size of the project	
APIM Name	List Change Order	
InEight Control	Starting Version	23.12
	Ending Version	

Fields

Depth	Name	Type	Precision ¹	Parent
1	@odata.context	String	500	
1	Value	Array	N/A	
2	ProjectDisplayId	String	200	Value
2	ProjectExternalId	String	50	Value
2	ChangeOrderId	Int		Value
2	ChangeOrderNumber	String	50	Value
2	Description	String	500	Value
2	CCO	String	250	Value
2	IssueNumber	String	200	Value
2	LastChangedBy	String	200	Value
2	LastChangedOn	String	50	Value
2	Notes	String	250	Value
2	Status	String	50	Value
2	ChangeManagementTag1	String	100	Value
2	ChangeManagementTag2	String	100	Value
2	ChangeManagementTag3	String	100	Value
2	TotalBudgetCostAdjustment	Decimal	22,11	Value

Depth	Name	Type	Precision ¹	Parent
2	TotalBudgetMHAdjustment	Decimal	22,11	Value
2	TotalContractPrice	Decimal	22,11	Value
2	ChangeOrderTypepId	Int		Value
2	Type	String	50	Value
2	ChangeManagementUserDefined1	String	500	Value
2	ChangeManagementUserDefined2	String	500	Value
2	ChangeManagementUserDefined3	String	500	Value
2	ApprovalProbability	Decimal	22,11	Value
2	Discipline	String	500	Value
2	ApprovedOn	String	50	Value
2	ApprovedBy	String	200	Value
2	IsActive	Boolean	N/A	Value
2	StartDate	String	50	Value
2	FinishDate	String	50	Value
2	CostCurve	String	50	Value
2	CostItems	Array	N/A	Value
3	CostItemId	Int		CostItems
3	WBSPPhaseCode	String	50	CostItems
3	CBSPosition	String	100	CostItems
3	CostItemSourceSystemId	String	250	CostItems
3	IsActive	Boolean	N/A	CostItems
3	IsTerminal	Boolean	N/A	CostItems
3	Change	Array	N/A	CostItems
4	ChangeOrderDetailId	Int		Change
4	Manhours	Decimal	22,11	Change
4	Quantity	Decimal	22,11	Change
4	Costs	Array	N/A	Change
5	Name	String	50	Costs
5	Cost	Decimal	22,11	Costs
5	IsTerminalCostCategory	Boolean	N/A	Costs
3	TimePhased	Array	N/A	CostItems
4	Month	String	2	TimePhased
4	Year	String	4	TimePhased
4	CostsPerMonth	Decimal	22,11	TimePhased

Depth	Name	Type	Precision ¹	Parent
4	Costs	Array	N/A	TimePhased
5	Name	String	50	Costs
5	Cost	Decimal	22,11	Costs
5	IsTerminalCostCategory	Boolean	N/A	Costs
2	PayItems	Array	N/A	Value
3	PayItemNumber	String	100	PayItems
3	PayItemPosition	String	100	PayItems
3	PayItemSourceSystemId	String	150	PayItems
3	IsActive	Boolean	N/A	PayItems
3	IsTerminal	Boolean	N/A	PayItems
3	AdjustedCurrentPrice	Decimal	22,11	PayItems
3	AdjustedCurrentUnitPrice	Decimal	22,11	PayItems
3	AdjustedPayQuantity	Decimal	22,11	PayItems
3	BillingMethod	String	50	PayItems
3	PayItemStatus	String	50	PayItems

1 – For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 – The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000

Field Descriptions

Name	Description	Example
@odata.context	http of where the information was requested.	https://test.ineight.com/integrations/\$metadata#ControlChangeOrder
ProjectDisplayId	Unique project display ID.	190001
ProjectExternalId	External project ID.	190001
ChangeOrderID	Id of the change order	2134
ChangeOrderNumber	Change order number of the change order	1.0
Description	Description of the change order	Change order 1
CCO	CCO from Change associated to the Change order	CCO 1
IssueNumber	Issue number from Change associated to the change order	Issue 1
LastChangedBy	Last user to modify the change order	John Smith

Name	Description	Example
LastChangedOn	Last day and time the change order was modified	2024-01-11T21:46:49.3146637+00:00
Notes	Notes on the Change order	This is a note
Status	Status of the Change order	Approved
ChangeManagementTag1	Change management tag 1 on the Change order	Tag 1
ChangeManagementTag2	Change management tag 2 on the Change order	Tag 2
ChangeManagementTag3	Change management tag 3 on the Change order	Tag 3
ApprovalProbability	Approval probability % on the change order	100.0
Discipline	Discipline selected on the change order	
ApprovedOn	When the change order was approved	
ApprovedBy	Who approved the change order	John Smith
IsActive	If the change order is active or deleted	True
StartDate	The start date of the change order if Time phased budget is being used	2024-01-01T00:00:00+00:00
FinishDate	The finish date of the change order if the Time phased budget is being used	2024-01-01T00:00:00+00:00
CostCurve	The cost curve of the change order if time phased budget is being used	Linear
CostItemId	Internal unique cost item ID	4
WBSPHaseCode	WBS phase code of a cost item.	1000
CBSPosition	Cost items CBS position.	1.1
CostItemSourceSystemId	Unique cost item ID for external purposes.	1000.1
IsActive	Determines if a cost item active or deleted	true
IsTerminal	Determines if a cost item is a terminal.	true
ChangeOrderDetailID	Internal unique identifier for the change order line	1
Manhours	Adjusted man hours for a cost item on a change order	4.3
Quantity	Adjusted quantity for a cost item on a change order	3
Name	Source system ID of a cost category for the adjusted cost on that cost item See Appendix A .	Undefined Labor
Cost	Adjusted cost for cost category for a cost item on a change order	100
IsTerminalCostCategory	If the cost category is terminal	true
Month	Month for time phased budget	3
Year	Year for time phased budget	2024
CostPerMonth	Total adjusted amount for that month	60

Name	Description	Example
Name	Source system ID of a cost category for the adjusted cost of the time phased budget on that cost item See Appendix A .	Undefined Labor
Cost	Adjusted cost for cost category for a cost item for the time phased budget on a change order	3
IsTerminalCostCategory	If the cost category is terminal	true
PayItemNumber	Pay item number in the change order	1
PayItemPosition	Pay item position of the pay item in the change order	1
PayItemSourceSystemId	Unique cost item ID for external purposes.	23.1
IsActive	Determines if a pay item active or deleted	True
IsTerminal	Determines if a pay item is a terminal.	True
AdjustedCurrentPrice	Adjusted price for a pay item on a change order	50
AdjustedCurrentUnitPrice	Adjusted unit price for a pay item on a change order	12.2
AdjustedPayQuantity	Adjusted quantity for a pay item on a change order	3
BillingMethod	Billing method for a pay item on a change order	Fixed Final Price
PayItemStatus	Status for a pay item on a change order	Approved

Sample JSON

```
{
  "@odata.context":
  "https://apisbx.ineight.com/integrations/$metadata#ControlChangeOrder",
  "value": [
    {
      "ProjectDisplayId": "190004",
      "ProjectExternalId": "190003",
      "ChangeOrderId": 227726,
      "ChangeOrderNumber": "2.0",
      "Description": "",
      "CCO": "",
      "CreatedDate": "2024-01-17T21:55:17.491+00:00",
      "IssueNumber": "",
      "LastChangedBy": "Renee Japp",
      "LastChangedOn": "2024-01-17T21:55:28.1489349+00:00",
      "Notes": "",
      "Status": "Pending",
      "ChangeManagementTag1": "",
      "ChangeManagementTag2": "",
      "ChangeManagementTag3": "",
      "TotalBudgetCostAdjustment": 150.0,
      "TotalBudgetMHAdjustment": 0.0,
      "TotalContractPrice": 2000.0,
      "ChangeOrderTypeId": 14,
      "Type": "Contract adjustment",
      "ChangeManagementUserDefined1": "",
      "ChangeManagementUserDefined2": "",
      "ChangeManagementUserDefined3": ""
    }
  ]
}
```

```

"ApprovalProbability": 0.0,
"Discipline": "",
"ApprovedOn": "",
"ApprovedBy": "John Smith",
"IsActive": true,
"StartDate": "2024-01-02T00:00:00+00:00",
"FinishDate": "2024-01-02T00:00:00+00:00",
"CostCurve": "Linear",
  "CostItems": [
    {
      "CostItemId": 1970249,
      "CBSPosition": "2",
      "WBSPhaseCode": "1004",
      "IsTerminal": true,
      "CostItemSourceSystemID": "",
      "IsActive": true,
      "Change": {
        "ChangeOrderDetailId": 2161114,
        "Manhours": 0.0,
        "Quantity": 0.0,
        "Costs": [
          {
            "Name": "Total",
            "Cost": 50.0,
            "IsTerminalCostCategory": false
          },
          {
            "Name": "Undefined",
            "Cost": 50.0,
            "IsTerminalCostCategory": true
          }
        ]
      }
    },
    {
      "TimePhased": [
        {
          "Month": "1",
          "Year": "2024",
          "CostPerMonth": 50.0,
          "Costs": [
            {
              "Name": "Total",
              "Cost": 50.0,
              "IsTerminalCostCategory": false
            },
            {
              "Name": "Undefined",
              "Cost": 50.0,
              "IsTerminalCostCategory": true
            }
          ]
        }
      ]
    }
  ],
  "CostItemId": 1970250,
  "WBSPhaseCode": "1005",
  "CBSPosition": "3",

```

```

    "IsTerminal": true,
    "CostItemSourceSystemID": "",
    "IsActive": true,
    "Change": {
      "ChangeOrderDetailId": 2161115,
      "Manhours": 0.0,
      "Quantity": 0.0,
      "Costs": [
        {
          "Name": "Total",
          "Cost": 100.0,
          "IsTerminalCostCategory": false
        },
        {
          "Name": "Undefined",
          "Cost": 100.0,
          "IsTerminalCostCategory": true
        }
      ]
    },
    "TimePhased": [
      {
        "Month": "1",
        "Year": "2024",
        "CostPerMonth": 100.0,
        "Costs": [
          {
            "Name": "Total",
            "Cost": 100.0,
            "IsTerminalCostCategory": false
          },
          {
            "Name": "Undefined",
            "Cost": 100.0,
            "IsTerminalCostCategory": true
          }
        ]
      }
    ]
  ],
  "PayItems": [
    {
      "PayItemNumber": "2",
      "PayItemPosition": "",
      "PayItemSourceSystemId": "13211.2",
      "IsActive": true,
      "IsTerminal": false,
      "AdjustedCurrentPrice": 2000.0,
      "AdjustedCurrentUnitPrice": 20.0,
      "AdjustedPayQuantity": 100.0,
      "BillingMethod": "Fixed Final Price",
      "PayItemStatus": "Pending"
    }
  ]
}
]

```

```
}
```

Actuals (Generic) – Get

NOTE: When requesting a project's actuals information, the external project ID, Grouping, and IncludeRollups actuals must be used in the request.

Direction		Request to retrieve information for a project
Frequency		Determined by external system
Trigger Method(s)		External system
Average Payload Size		Dependent on size and length of the project.
APIM Name		List Actuals
InEight Control	Starting Version	24.5
	Ending Version	
<u>Configuration Entity Name</u>		ControlActuals_Get
Other		Required Parameter: Projectid - External project id Grouping - TRANSACTION, POSTINGDATE, COSTITEM IncludeRollups - TRUE, FALSE Actual - COST, MANHOURS, EQUIPMENTHRS, QUANTITY Other Parameters: Type - ESTIMATED, CONFIRMED, ALL ToDate - pull actuals between a date range for the posted date - format (MM-DD-YYYY or YYYY-MM-DD) FromDate - pull actuals between a date range for the posted date - format (MM-DD-YYYY or YYYY-MM-DD)

Fields

Depth	Name	Type	Precision ¹	Parent
1	@odata.context	String	500	
1	Value	Array	N/A	
2	ProjectExternalId	String	200	Value
2	ProjectDisplay	String	200	Value
2	CostItems	Array	NA	
3	PhaseCode	String	50	CostItems
3	CBSPositionCode	String	50	CostItems
3	CostItemSourceSystemId	String	250	CostItems
3	AllowAsBuilt	String	50	CostItems

Depth	Name	Type	Precision ¹	Parent
3	IsTerminal	Boolean	NA	CostItems
3	IsActive	Boolean	NA	CostItems
3	Actuals	Array	NA	CostItems
4	SourceSystemId	String	50	Actuals
4	SourceSystemName	String	50	Actuals
4	Type	String	50	Actuals
4	PostingDate	String	50	Actuals
4	Notes	String	250	Actuals
4	Quantity	Decimal	11,11	Actuals
4	ManHours	Decimal	11,11	Actuals
4	EquipmentHours	Decimal	11,11	Actuals
4	IsActive	Boolean	NA	Actuals
4	Cost	Array	NA	Actuals
5	Name	String	30	Cost
5	Amount	Decimal	11,11	Cost
5	IsTerminal	Boolean	NA	Cost
4	ActualsUserDefined1	String	25	Actuals
4	ActualsUserDefined2	String	25	Actuals
4	ActualsUserDefined3	String	250	Actuals
4	ActualsUserDefined4	String	250	Actuals
4	ActualsUserDefined5	String	250	Actuals
4	ActualsUserDefined6	String	250	Actuals
4	EstimateResource	String	50	Actuals

1 - For numeric data types, precision is given as total digits allowed in the field and the number of those digits that exist to the right of the decimal. For example, 16,5 represents a total of 16-digits allowed in the field with 5 of those digits existing as decimal places and 11 digits on the left of the decimal. The decimal is not counted as a digit.

2 - The data format for Date/Time fields is YYYY-MM-DDTHH:MM:SS+hhmm, where hhmm is the time zone offset. If the time is already converted to UTC, then the offset will be +0000

Field Descriptions

Name	Description	Example
@odata.context		https://test.ineight.com/integrations/\$metadata#ControlActuals
Value	Array	

Name	Description	Example
ProjectExternalId	Unique project display ID	190001
ProjectDisplay	Project external ID	190001
CostItems	Array header.	
PhaseCode	Defines the phase code for the cost item.	1001
CBSPositionCode	Defines the CBS position for the cost item	1.2
CostItemSourceSystemId	Defines the cost item source system id for the cost item	190001.1001
AllowAsBuilt	Defines the Allow As Built for the cost item	All, Cost, Quantity, None
IsTerminal	Defines the Is Terminal for the cost item	true, false
IsActive	Defines if the cost item is deleted.	true, false
Actuals	Array header	
SourceSystemId	Defines the source system id for the actual posting	190001.1001.1
SourceSystemName	Defines the source system name for the actual posting	ERP
Type	Defines the type for the actual posting	CONFIRMED, ESTIMATED
PostingDate	Defines the Posting Date for the actual posting	2024-05-06
Notes	Defines the notes for the actual posting	
Quantity	Defines the quantity for the actual posting	1.25
ManHours	Defines the man hours for the actual posting	2.5
EquipmentHours	Defines the equipment hours for the actual posting	3.0
IsActive	Defines if the actual postings is soft deleted.	true, false
Cost	Array header.	
Name	The cost category source system id that is associated to the cost in the array (Please refer to Appendix A)	
Amount	The amount of cost for the actuals	19.10
IsTerminal	Defines the Is Terminal for the Cost category	true, false
ActualsUserDefined1	A date field associated to the actual transaction.	2024-09-09
ActualsUserDefined2	A date field associated to the actual transaction.	2024-09-09
ActualsUserDefined3	A free-form text field associated to the actual transaction.	User defined 3
ActualsUserDefined4	A free-form text field associated to the actual transaction.	User defined 4
ActualsUserDefined5	A free-form text field associated to the actual transaction.	User defined 5
ActualsUserDefined6	A free-form text field associated to the actual transaction.	User defined 6
EstimateResource	An estimate resource code associated to the actual transaction.	Labor1

Sample JSON

```
{
  "@odata.context":
  "https://apisbx.ineight.com/integrations/$metadata#ControlActuals",
  "value": [
    {
      "ProjectDisplay": "190003",
      "ExternalProjectID": "190003",
      "CostItems": [
        {
          "PhaseCode": "1006",
          "CBSPositionCode": "1.1.1.1.1.2",
          "CostItemSourceSystemId": "d24a3184-041a-212c-b027-d90fb03b5af6",
          "AllowAsBuilt": "All",
          "IsTerminal": true,
          "IsActive": true,
          "Actuals": [
            {
              "SourceSystemId": "",
              "SourceSystemName": "ExternalSystem",
              "Type": "CONFIRMED",
              "PostingDate": "2024-07-12",
              "Notes": "1006",
              "Quantity": 0.0,
              "ManHours": 0.0,
              "EquipmentHours": 0.0,
              "IsActive": true,
              "ActualsUserDefined1": "2024-07-12",
              "ActualsUserDefined2": "2024-10-24",
              "ActualsUserDefined3": "udf3",
              "ActualsUserDefined4": "udf4",
              "ActualsUserDefined5": "udf5",
              "ActualsUserDefined6": "udf6",
              "EstimateResource": "",
              "Cost": [
                {
                  "Name": "Total",
                  "Amount": 5000.0,
                  "IsTerminal": false
                },
                {
                  "Name": "Materials",
                  "Amount": 5000.0,
                  "IsTerminal": false
                },
                {
                  "Name": "Undefined Materials",
                  "Amount": 5000.0,
                  "IsTerminal": true
                }
              ]
            }
          ]
        }
      ]
    }
  ],
}
```

```

"PhaseCode": "1005",
"CBSPositionCode": "1.1.1.1.1.1",
"CostItemSourceSystemId": "36029a96-7ff1-0680-94b4-5110b5401936",
"AllowAsBuilt": "All",
"IsTerminal": true,
"IsActive": true,
"Actuals": [
  {
    "SourceSystemId": "",
    "SourceSystemName": "ExternalSystem",
    "Type": "CONFIRMED",
    "PostingDate": "2024-07-13",
    "Notes": "Maintenance",
    "Quantity": 0.0,
    "ManHours": 0.0,
    "EquipmentHours": 0.0,
    "IsActive": true,
    "ActualsUserDefined1": "",
    "ActualsUserDefined2": "",
    "ActualsUserDefined3": "",
    "ActualsUserDefined4": "",
    "ActualsUserDefined5": "",
    "ActualsUserDefined6": "",
    "EstimateResource": "",
    "Cost": [
      {
        "Name": "Total",
        "Amount": 5000.0,
        "IsTerminal": false
      },
      {
        "Name": "Rented Equipment",
        "Amount": 5000.0,
        "IsTerminal": false
      },
      {
        "Name": "RE Operation",
        "Amount": 5000.0,
        "IsTerminal": false
      },
      {
        "Name": "RE Repair Labor",
        "Amount": 5000.0,
        "IsTerminal": true
      }
    ]
  }
]
}

```

Appendix A: Cost Categories

The following table shows the complete list of cost categories available in the InEight cloud platform.

Level 0	Level 1	Level 2	Level 3	Level 4	SourceSystemId
Total					Total
	Labor				Labor
		Labor Base			Labor Base
		Labor Burden			Labor Burden
			Labor Fringes		Labor Fringes
				Travel	Travel
				Premium	Premium
				Holiday	Holiday
				Savings	Savings
				Pension	Pension
				Vacation	Vacation
				Subsistence	Subsistence
				Health & Welfare	Health & Welfare
				Apprenticeship	Apprenticeship
				Undefined Fringe1	Undefined Fringe1
				Undefined Fringe2	Undefined Fringe2
				Undefined Labor Fringes	Undefined Labor Fringes
			Labor Insurance		Labor Insurance
				Bodily Injury & Property Damage	Bodily Injury & Property Damage
				Workers Compensation	Workers Compensation
				Undefined Insurance1	Undefined Insurance1
				Undefined Insurance2	Undefined Insurance2
				Undefined Labor Insurance	Undefined Labor Insurance
			Labor Taxes		Labor Taxes
				FICA	FICA
				FUTA	FUTA
				SUTA	SUTA

Level 0	Level 1	Level 2	Level 3	Level 4	SourceSystemId
				Undefined Tax1	Undefined Tax1
				Undefined Labor Taxes	Undefined Labor Taxes
			Undefined Labor Burden		Undefined Labor Burden
		Undefined Labor			Undefined Labor
	Construction Equipment				Owned Equipment
		OE Ownership			OE Ownership
			OE Depreciation		OE Depreciation
			OE Overhead		OE Overhead
			OE Cost of Facilities Capital (Cfc)		OE Cost of Facilities Capital (Cfc)
			OE Insurance		OE Insurance
			OE License		OE License
			OE Taxes		OE Taxes
			OE Overhaul Parts		OE Overhaul Parts
			OE Overhaul Labor		OE Overhaul Labor
			OE Undefined Ownership1		OE Undefined Ownership1
			Undefined OE Ownership		Undefined OE Ownership
		OE Operation			OE Operation
			OE Repair Parts		OE Repair Parts
			OE Repair Labor		OE Repair Labor
			OE Fuel		OE Fuel
			OE Lube		OE Lube
			OE Tires & Tracks		OE Tires & Tracks
			OE Ground Engaging Components		OE Ground Engaging Components
			OE Undefined Operation1		OE Undefined Operation1
			Undefined OE Operation		Undefined OE Operation
		Undefined Construction Equipment			Undefined Owned Equipment

Level 0	Level 1	Level 2	Level 3	Level 4	SourceSystemId
	FOM Rented Equipment				Rented Equipment
		RE Rental			RE Rental
			RE Rent Expense		RE Rent Expense
			RE Overhead		RE Overhead
			RE Finance Expense		RE Finance Expense
			RE Insurance		RE Insurance
			RE License		RE License
			RE Rental Taxes		RE Rental Taxes
			RE Overhaul Parts		RE Overhaul Parts
			RE Overhaul Labor		RE Overhaul Labor
			RE Undefined Rent1		RE Undefined Rent1
			Undefined RE Rental		Undefined RE Rental
		RE Operation			RE Operation
			RE Repair Parts		RE Repair Parts
			RE Repair Labor		RE Repair Labor
			RE Fuel		RE Fuel
			RE Lube		RE Lube
			RE Tires & Tracks		RE Tires & Tracks
			RE Ground Engaging Components		RE Ground Engaging Components
			RE Undefined Operation1		RE Undefined Operation1
			Undefined RE Operation		Undefined RE Operation
		Undefined FOM Rented Equipment			Undefined Rented Equipment
	Materials				Materials
		Installed Equipment			Installed Equipment
		Installed Materials			Installed Materials
		Construction Supplies			Construction Supplies
		Undefined Materials			Undefined Materials
	Subcontract				Subcontract
		Subcontract Price			Subcontract Price

Level 0	Level 1	Level 2	Level 3	Level 4	SourceSystemId
		Subcontract Conditions			Subcontract Conditions
		Subcontract Taxes			Subcontract Taxes
		Subcontract Bond			Subcontract Bond
		Undefined Subcontract			Undefined Subcontract
	Fees				Fees
		Job Bond			Job Bond
		Job Insurance			Job Insurance
		Business Taxes			Business Taxes
		Sales Taxes			Sales Taxes
		Fees Undefined1			Fees Undefined1
		Undefined Fees			Undefined Fees
		Finance Expense			Finance Expense
	Allowance				Allowance
		Risk Allowance			Risk Allowance
		Contingency Allowance			Contingency Allowance
		Undefined Allowance			Undefined Allowance
		Adjustment Allowance			Adjustment Allowance
	G & A				Custom Category1
	Undefined				Undefined Total
	Supplies				Supplies
		Undefined Supplies			Undefined Supplies

Appendix B: Standard Test Scenarios for Control Integrations

Cost Breakdown Structure (CBS) and Budget

1. Send the CBS and Budget to the ERP when the budget is not locked (after initial load from Estimate)
 - Verify systems are in sync
2. Lock the budget in Control
3. Send the CBS and Budget
 - Verify systems are in sync
4. Create a new cost item
5. Send the CBS and Budget
 - Verify systems are in sync
6. Change a description of a cost item
7. Send the CBS and Budget
 - Verify systems are in sync
8. Change the CE \$, CE MH, Forecast T/O qty
9. Send the CBS and Budget
 - Verify systems are in sync
10. If attributes of Cost Items are being capture in the ERP, change an attribute of the CBS
11. Send the CBS and Budget
 - Verify systems are in sync
12. Create a budget move or contract adjustment
13. Send the CBS and Budget
 - Verify systems are in sync

CBS and Forecast

1. Send the CBS and Forecast to the ERP
 - Verify systems are in sync
2. Change the forecast method
3. Send the CBS and Forecast to the ERP
 - Verify systems are in sync
4. Specify a manual forecast at a terminal
5. Send the CBS and Forecast to the ERP
 - Verify systems are in sync
6. Specify a manual forecast at a parent
7. Send the CBS and Forecast to the ERP
 - Verify systems are in sync
8. Add a new cost item
9. Send the CBS and Forecast to the ERP
 - Verify systems are in sync
10. Change a forecast method to none at a parent
11. Send the CBS and Forecast to the ERP
 - Verify systems are in sync