

sage 300
Construction and
Real Estate

API User's Guide

Certified course
curriculum



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About the Sage 300 Construction and Real Estate Web API's

The Sage 300 Construction and Real Estate APIs are deployed to the customer's accounting server at the time of installation. These APIs expose transactional and lookup endpoints designed to fully integrate development partner applications and Sage 300 Construction and Real Estate. These endpoints accept and return JavaScript Object Notation (JSON) formatted objects.

Each of the endpoints requires you to have one or more Sage licenses in order to implement them. Additionally, to use your application, customers must have the appropriate licenses and user permissions. The requisite licenses and permissions are listed for each endpoint in this document.

HTTP headers

Your application should manage the correct URL based on the customer's implementation of Sage 300 Construction and Real Estate. The HTTP headers require certain key, authentication, data folder, and formatting information on all API requests.



NOTE: As a development partner, you should have received information on how to acquire a unique API key from Sage. This key authorizes your interfacing application to use specific features exposed by the APIs. A valid key gives you access to a set of common APIs for a specific amount of time. A new key will be issued when you renew your development partner agreement.

A valid API key must be attached to the **X-DPPKey** field of the HTTP header for each request. The key's signature is checked against the license to verify that the API endpoint being executed is included in your license. This example shows the format for the API key (although the license ID and signature shown here are not valid):

```
<License>
  <Id>b7999a73-659d-48ca-9b21-970e57e4784d</Id>
  <Type>Standard</Type>
  <Customer>
    <Name>Partner Company</Name>
    <Email></Email>
  </Customer>
  <ProductFeatures>
    <Feature name = "Payroll Time API">yes</Feature>
  </ProductFeatures>
  <Signature>MEQCIGCHD0fxHt1B9H4HuYYY7HNdwwALaaGwdaVb5m6+BR+4AiBCzhZ2/
  Wp0o6beyC58Efc8EkzzzbAUyMjjT+TLtaXJ2A==</Signature>
</License>
```

Response Classes

Responses for each endpoint can have up to four nodes: **Data**, **Errors**, **Meta**, and **Success**, listed as follows:

```
{
  Data: [...],
  Errors: [...],
  Meta: [...],
  Success: true
}
```

In some cases, only the data attributes are listed, in which case the list of fields appears without a node name:

```
[ {
  Field1: "string",
  Field 2: "string"...
} ]
```

In this document, the list of **Data** attributes is provided for each endpoint. The **Errors**, **Meta**, and **Success** nodes do not vary in structure from one , and are shown in this table.

Node	Schema
Errors	ID (string), Links: About (string) Code (string) Title (string) Detail (string) Meta: InfoList: Code (string) Description (string) Custom (inline_model)
Meta	InfoList: Code (string) Description (string) Custom (inline_model)
Success	Success (boolean)

HTTP status codes

This table shows some common HTTP response codes generated by the endpoints. You can find information about other codes at <https://developer.mozilla.org/en-US/docs/Web/HTTP/Status>.

HTTP status code	Reason	Model
400	The request validation has failed.	string
401	The user authentication failed.	string
403	The user is not licensed/permitted	string
500	The server encountered an unexpected condition which prevented it from fulfilling the request.	string

Common endpoints

These endpoints are available to development partners with any valid API key license.

/api/metadata/classes (GET)

Gets the list of aliases for metadata classes. Each column in the response list can be used as a **SortField**.

Request Parameters				
Parameter	Required	Description	Parameter type	Data type
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		
Attributes	Data type	Notes
String array	string	List of class names.
The response class includes the Errors , Meta , and Success nodes.		

Licensing and User Permission Requirements		
DPP Licenses	Customer Licenses	User Permissions
Valid DPP license of any type		

/api/metadata (GET)

Gets the metadata (schema) for a specified class. This is important because the schema can be customized by Sage 300 Construction and Real Estate users in **Custom Descriptions** and **Custom Fields**.

- The **Custom Descriptions** window allows users to change attributes of *existing* fields, such as the name, length, formatting (if the field is formatted), and list items (if the field is a list). For example customers format their General Ledger account number sections and lengths in this window. If the field description has been changed, this endpoint provides the new name (**CustomDescription**)
- The **Custom Fields** window lets users add *new* fields to specific records. For example, a user might add fields to the Job Cost job record called **LEED Certification level** (alpha) and **LEED points** (number). These windows show the settings for the alpha and number types, respectively. Each data type has corresponding settings, and all settings are included in the response class.

The 'Add Field' dialog box for an Alpha field type. The description is 'LEED certification level'. The length is set to 40. The type is Alpha. The 'Required entry' checkbox is unchecked. The 'Name field' checkbox is unchecked. The 'Justification' is set to Left. The 'ODBC Options' are checked for 'Allow read' and 'Allow replace'. The 'OK', 'Cancel', and 'Help' buttons are at the bottom.

The 'Add Field' dialog box for a Numeric field type. The description is 'LEED points level'. The number of digits is set to 3. The type is Numeric. The 'Required entry' checkbox is unchecked. The 'Signed' checkbox is checked. The 'Percent' checkbox is unchecked. The 'Total this field' checkbox is checked. The 'Commas' checkbox is unchecked. The 'Disallow zero' checkbox is unchecked. The 'Leave blank if zero' checkbox is unchecked. The 'Decimal places' are set to 2. The 'ODBC Options' are checked for 'Allow read' and 'Allow replace'. The 'OK', 'Cancel', and 'Help' buttons are at the bottom.

Request Parameters			/api/metadata (GET)	
Parameter	Required	Description	Parameter type	Data type
classNames	✓	Name of the class. Provide multiple values in new lines (at least one is required).	query	Array[string]
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/metadata (GET)
Schema		Notes
ClassName (string) MetadataList (list): Key (string) Metadata MetadataType (string) CustomField (boolean) Signed (boolean) Percent (boolean) TotalThisField (boolean) Commas (boolean) DisallowZero (boolean) LeaveBlankIfZero (boolean) DecimalPlaces (integer) DateEntryFormat (string) TimeEntryFormat (string) TimeType (string) PhoneEntryFormat (string) AllCaps (boolean) CustomDescription (string) CustomList (list): Default (string) List (string array) DefaultValue (object) ExampleFormat (string) ExampleFormatWithSectionNames (string) FieldLabel (string) FieldType (string) FormattedMaxLength (integer) Name (string) ReadOnly (boolean) RequiredField (boolean) RightJustify (boolean) UnformattedMaxLength (integer) Visible (boolean)	• The CustomField attribute indicates whether the field has been set up in Custom Fields. • The CustomDescription attribute provides the customized name of the object from Custom Descriptions. If the name has not been customized, the default name is returned. • The CustomList attribute provides the values list from Custom Descriptions when a custom description field is a list that can be customized. • The FormattedMaxLength attribute provides the length of the field, which can be changed (Custom Descriptions) or set (Custom Fields). • The other attributes in this list correspond to entries in Custom Descriptions and Custom Fields.	
The response class includes the Errors , Meta , and Success nodes described on page 3.		

Licensing and User Permission Requirements			/api/metadata (GET)
DPP Licenses	Customer Licenses	User Permissions	
Valid DPP license of any type			

/api/common/version (GET)

Gets the product version and returns it as a single string value.

Request Parameters			/api/common/version (GET)	
Parameter	Required	Description	Parameter type	Data type
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node			/api/common/version (GET)	
Attributes	Data type	Notes		
string	string	Software version.		

Licensing and User Permission Requirements			/api/common/version (GET)	
DPP Licenses	Customer Licenses	User Permissions		
Valid DPP license of any type				

/api/common/files (GET)

Gets the list of named files. Each column in the response list can be used as a **SortField** value.

Sage 300 Construction and Real Estate stores Pervasive data files with default names. Users can use different file names to organize or separate records using the **File Locations** window. For example, a customer might want to store field employee payroll records in the generic Payroll file, but keep executive pay information in a different, named file. Use this endpoint to fetch the file names in which the data you are working with could be stored.

Request Parameters			/api/common/files (GET)	
Parameter	Required	Description	Parameter type	Data type
FileExtension	✓	The named file extension.	query	string
FileCode		The named file code, with one of these values:	query	string
		Default All other codes.		
		NewActive Unposted transactions or batches, or open contracts.		
		CurrentStandard Posted transactions or batches, or setup information.		
		History Archived transactions or batches.		
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node			/api/common/files (GET)	
Attributes	Data type	Notes		
FileCode	string	The named file code (see the parameters list, above).		
FileExtension	string			
FileName	string			

Licensing and User Permission Requirements			/api/common/files (GET)	
DPP Licenses	Customer Licenses	User Permissions		
Valid DPP license of any type				

/api/common/user/authenticate (POST)

Issues and manages authentication tokens for valid Sage 300 Construction and Real Estate users' Windows credentials. The authentication token returned by this endpoint must be attached to the **X-Credentials** field of the HTTP header for each subsequent request.



NOTE: The user name must include the domain, and the backslash must be escaped in the JSON payload, as shown here: **Domain\\UserName**.

Request Parameters			/api/common/user/authenticate (GET)	
Parameter	Required	Description	Parameter type	Data type or model
credentials	✓	User credentials payload.	body	userid (string), password (string)
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node			/api/common/user/authenticate (GET)	
Attributes	Data type	Notes		
string	string	Authentication token.		

Licensing and User Permission Requirements			/api/common/user/authenticate (GET)	
DPP Licenses	Customer Licenses	User Permissions		
Valid DPP license of any type				

/api/common/company (GET)

Returns a list of companies to which the authenticated user has access.

About company folders: Sage 300 Construction and Real Estate data can be organized into different “companies” (or databases), with a single server hosting multiple companies. Administrators make companies available to users by adding them to the “company list.” Depending on security settings, Sage 300 Construction and Real Estate users might not have access to all companies on the company list.

The API provides a header field (**X-DatabaseName**) for specifying the company, which is required on most API requests. The authenticated user must have access to the specified company.

Request Parameters			/api/common/company (GET)	
Parameter	Required	Description	Parameter type	Data type
X-Credentials	✓	The user credentials token.	header	string

Response Class Data Node			/api/common/company (GET)	
Attributes	Data type	Notes		
Id	string			
Name	string			
Database	string			
Path	string			
Description	string	Typically, the database Name and Description match. Users see a warning message when opening the company if these are inconsistent.		

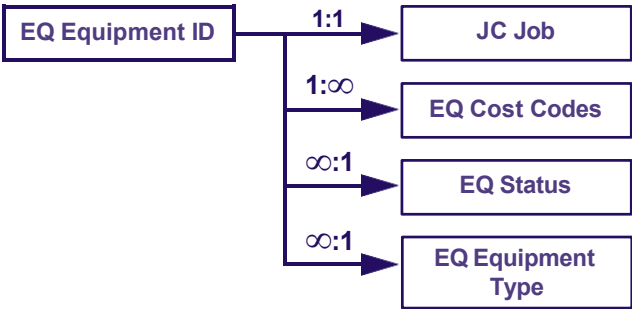
Licensing and User Permission Requirements			/api/common/company (GET)	
DPP Licenses	Customer Licenses	User Permissions		
Valid DPP license of any type				

Equipment endpoints

Equipment Cost (EQ) lets users track costs associated with pieces of equipment used on jobs. Users can set up EQ cost codes, which are different from Job Cost cost codes. Multiple EQ cost codes can be applied to each equipment ID. Equipment types can also be set up, which lets users group equipment items on reports.

Equipment can be assigned to jobs. This lets users track which pieces of equipment are available. When users enter transactions in Job Cost, they can associate the transaction with the equipment.

Use the Equipment endpoint to fetch the equipment list. You can filter the list by equipment status. The list of statuses can be customized in **Custom Descriptions (EQ Status)**.



/api/equipment (GET)

Gets a list of the Equipment Cost equipment items. Each column in the response list can be used as a **SortField**.

Request Parameters			/api/equipment (GET)	
Parameter	Required	Description	Parameter type	Data type
Status		An equipment status.	query	string
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data node			/api/equipment (GET)	
Attributes	Data type	Notes		
Attached to	string	Equipment items can be attached to one another if they must work together.		
Category	string	The Job Cost category assigned to the equipment item.		
Cost Code	string	The Job Cost cost code assigned to the item.		
Description	string			
Employee	string	The Payroll employee associated with the equipment (the equipment operator).		

Response Class Data node (Continued)			/api/equipment (GET)
Attributes	Data type	Notes	
Equipment	string		
Equipment_Type	string	The type of equipment (from EQM_MASTER_EQUIPMENT_TYPE)	
Job	string		
Make	string		
Model	string		
Status	string		

Licensing and User Permission Requirements			/api/equipment (GET)
DPP Licenses	Customer Licenses	User Permissions	
Equipment Lookups	Equipment API Lookups	APIs > Enter Time	

/api/equipment/costcode (GET)

Gets a list of the Equipment Cost cost code items. Each column in the response list can be used as a **SortField**.

Request Parameters			/api/equipment/costcode (GET)	
Parameter	Required	Description	Parameter type	Data type
Equipment		The equipment id with which the cost code is associated.	query	string
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node			/api/equipment/costcode (GET)	
Attributes	Data type	Notes		
Cost_Code	string	The Equipment Cost cost code.		
Description	string			
Equipment	string	The equipment ID to which the cost code is assigned.		
Memo_Cost	true	Determines whether entries are sent to interfacing applications when the equipment transaction is not charged to a job.		
Unit_Description	string			

Licensing and User Permission Requirements			/api/equipment/costcode (GET)	
DPP Licenses	Customer Licenses	User Permissions		
Equipment Lookups	Equipment API Lookups	APIs > Enter Time		

Job Cost endpoints

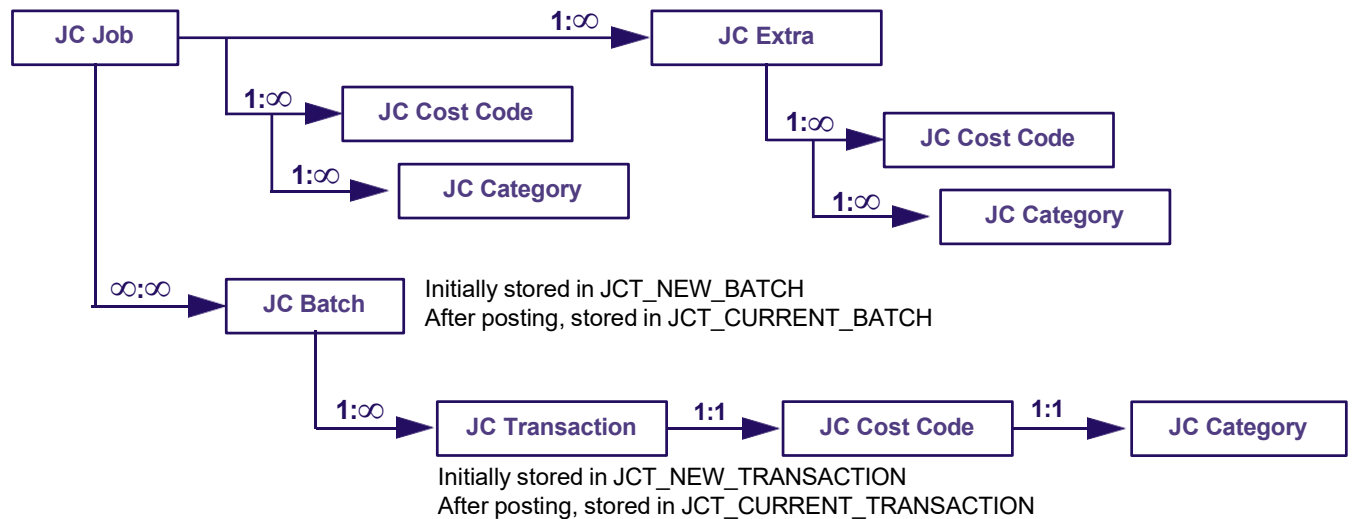
Job Cost (JC) lets users track transactions associated with jobs. They can set up JC cost codes, which are different from EQ cost codes. Multiple JC cost codes can be applied to each job. Users can opt to track categories associated with cost codes, but this is not required. If categories are used, they are set up to accumulate to one of five cost types: labor, material, equipment, other, and subcontract. (If categories are not used, cost codes accumulate to one of these cost types.) Multiple JC categories can be applied to each JC cost code.

Jobs can be associated with multiple extras (or sub-jobs). Each extra can have its own set of multiple cost codes and categories.

Transactions can be entered individually or in batches. A batch can contain many transactions coded to different jobs. Newly entered batches are stored in the JCT_NEW_BATCH record, which contains batch header information. After posting, batches are transferred to the JCT_CURRENT_BATCH record.

Each individual transaction is coded to a single job, cost code, and category. (They can also be associated with equipment IDs.) Newly entered transactions are stored in the JCT_NEW_TRANSACTION record. After posting, they are moved to the JCT_CURRENT_TRANSACTION record.

Use these endpoints to fetch the list of jobs and their associated extras, cost codes, and categories.



/api/jobcost/extra (GET)

Gets the Job Cost extra items. Each column in the response list can be used as a **SortField** value.

Request Parameters			/api/jobcost/extra (GET)	
Parameter	Required	Description	Parameter type	Data type
Job	✓	The job with which the extra is associated. The job must be configured to work with extras.	query	string
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node			/api/jobcost/extra (GET)	
Attributes	Data type	Notes		
City	string			
Description	string			
Extra	string			
Job	string			
State	string			
Status	string	The extra status: U (Unstarted), I (In progress), or C (Closed)		
ZIP_Code	string			

Licensing and User Permission Requirements			/api/jobcost/extra (GET)	
DPP Licenses	Customer Licenses	User Permissions		
JobCost Lookups	Job Cost API Lookups	APIs > Enter Time		

/api/transactions/batch (GET)

Gets the list of Job Cost batches in the JCT_NEW_BATCH file, or the named file specified if allowed.

Request Parameters			/api/transactions/batch (GET)	
Parameter	Required	Description	Parameter type	Data type
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string
X-JCTNewFileName		The name of the JCT_NEW_BATCH file. Optionally used if named files are set up for Job Cost transaction files.	header	string

Response Class Data Node			/api/transactions/batch (GET)	
Attributes	Data type	Notes		
Amount	number			
AmountPosted	number			
ApplicationOfOrigin	string			
BatchDescription	string			
Batch	string			
CreditAmount	number			
CreditAmountPosted	number			
Date	string			
DebitAmount	number			
DebitAmountPosted	number			
Source	integer	See "Options for Source (integer) /api/transactions/batch (GET)" on page 16.		
SourceDescription	string			
TransactionCount	integer			
TransactionPostedCount	integer			

Options for Source (integer)			/api/transactions/batch (GET)	
Number	Code	Description		
1	Dist	Interface transaction		
2	EE	Enter estimates		
3	ECOR	Item 3		
4	ECO	Enter change order		
5	ES	Enter commitment		
6	ESCO	Enter commitment change order		
7	ECCO	Project Management enter commitment change order		

Options for Source (integer) (Continued)			/api/transactions/batch (GET)
Number	Code	Description	
8	FW	Enter miscellaneous worksheet	
9	ED	Enter direct costs	
10	EB	Enter billings	
11	EP	Enter cash receipts	
12	GO	Generate OH (Future)	
13	SJ	Job Setup (Future)	
14	ESTI	Import estimate	
15	RECI	Import Accounts Receivable	
16	ICMT	Import Commitment	
17	IDC	Import direct costs	
18	CJ	Copy job	
19	CE	Change entries	
20	CM	Change management	
21	CHGA	Change management activity	

Licensing and User Permission Requirements			/api/transactions/batch (GET)
DPP Licenses	Customer Licenses	User Permissions	
JobCost Lookups	Job Cost API Lookups	Job Cost > Post Entries	

/api/transactions/post (POST)

Attempts to post the provided Job Cost batch entries from the JCT_NEW_TRANSACTION file, or the named file specified if allowed, to the JCT_CURRENT_TRANSACTION file, or to the named file specified if allowed.

Request parameters			api/transactions/post (POST)	
Parameter	Required	Description	Parameter type	Data type
requests	✓	The list of batches to post.	body	ApplicationOfOrigin (string) Batch (string) Source (0)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string
X-JCTNewFileName		The name of the New JCT file. Optionally used if named files are set up for Job Cost transaction files.	header	string
X-JCTCurrentFileName		The name of the New JCT file. Optionally used if named files are set up for Job Cost transaction files.	header	string

Response Class Data Node			/api/transactions/post (POST)	
Attributes	Data type	Notes		
ApplicationOfOrigin	string			
Batch	string			
Source	integer	See "Options for Source (integer) /api/transactions/batch (GET)" on page 16.		
PostError	string			
JournalPath	string			

Licensing and User Permission Requirements			/api/transactions/post (POST)	
DPP Licenses	Customer Licenses	User Permissions		
JobCost Lookups	Job Cost API Lookups	Job Cost > Post Entries		

/api/jobcost/job (GET)

Gets Job Cost job items. Each column in the response list can be used as a **SortField** value.

Request Parameters			/api/jobcost/job (GET)	
Name	Required	Description	Parameter type	Data type
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node				/api/jobcost/job (GET)	
Attributes		Data type	Notes		
Billing_Level	string	Job	Job level		
		PHS1	Cost Code Level 1		
		PHS2	Cost Code Level 2		
		PHS3	Cost Code Level 3		
		PHS4	Cost Code Level 4		
Burden_Percent	number	Used in Payroll calculations.			
Certified_Project	string				
City	string				
Daily_Entry_Control	string				
Default_Revenue_Code	string				
Description	string				
Extras	string	Indicates whether the job is configured to track extras. The /api/jobcost/extra endpoint requires a job index for a job that is configured for extras.			
		NTE	Not Tracking extras		
		TE	Tracking extras		
Job	string				
On_Hold true	boolean				
Percent_Complete	number				
Project_Manager	string				
Scope_of_Work	string				
Site_Phone	string				
State	string				
Status	string	The job status: U (Unstarted), I (In progress), or C (Closed)			
Type	string				

Response Class Data Node (Continued)			/api/jobcost/job (GET)
Attributes	Data type	Notes	
Workers_Comp_Group	string		
Work_Local	string		
Work_State	string		
ZIP_Code	string		

Licensing and User Permission Requirements			/api/jobcost/job (GET)
DPP Licenses	Customer Licenses	User Permissions	
JobCost Lookups	Job Cost API Lookups	APIs > Enter Time	

/api/jobcost/category (GET)

Gets the Job Cost category items. Each column in the response list can be used as a **SortField** value.

Request Parameters					/api/jobcost/category (GET)
Parameter	Required	Description	Parameter type	Data type	
CostCode		The Job Cost cost code with which the category is associated.	query	string	
Extra		The extra with which the category is associated.	query	string	
Job		The job with which the category is associated.	query	string	
SortDirection		The sort direction— Ascending or Descending .	query	string	
SortField		The sorted field.	query	string	
Skip		Skips the input quantity of records.	query	integer	
Take		Limits results to the input quantity.	query	integer	
X-DatabaseName	✓	The company data folder name.	header	string	
X-Credentials	✓	The user credentials token.	header	string	
X-DPPKey	✓	The DPP license key for this API.	header	string	

Response Class Data Node			/api/jobcost/category (GET)
Attributes	Data type	Notes	
Accumulate_As	string	If the user tracks categories, each category is accumulated into one of these cost types: LAB Labor MAT Material SUB Subcontract EQ Equipment OVH Overhead OTH Other	
Approved_Estimate_Changes	number		
Approved_Est_Unit_Changes	number		

Response Class Data Node (Continued)	/api/jobcost/category (GET)
--------------------------------------	-----------------------------

Attributes	Data type	Notes
Category	string	
Cost_Code	string	
Description	string	
Extra	string	
Job	string	
JTD_Units	number	The number of job units completed to date.
Original_Estimate	number	
Pending_Estimate_Changes	number	
Pending_Est_Unit_Changes	number	
Status	string	The category status: U (Unstarted), I (In progress), or C (Closed)
Total_Estimate	number	
Total_Estimate_Units	number	

Licensing and User Permission Requirements			/api/jobcost/category (GET)
DPP Licenses	Customer Licenses	User Permissions	
JobCost Lookups	Job Cost API Lookups	APIs > Enter Time	

/api/jobcost/costcode (GET)

Gets the Job Cost cost codes. Each column in the response list can be used as a **SortField** value.

Request Parameters			/api/jobcost/costcode (GET)	
Parameter	Required	Description	Parameter type	Data type
Job		The job with which the category is associated.	query	string
Extra		The extra with which the category is associated.	query	string
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/jobcost/costcode (GET)
Attributes	Data type	Notes
Accumulate_As	string	If the user does not track categories, each cost code is accumulated into one of these cost types: LAB Labor MAT Material SUB Subcontract EQ Equipment OVH Overhead OTH Other
Cost_Code	string	
Description	string	
Extra	string	
Group_Cost_Code	boolean	
Job	string	
JTD_Aprvd_Estimate_Chgs	number	
JTD_Labor_Cost	number	
JTD_Labor_Units	number	
JTD_Production_Units	number	
Original_Estimate	number	
Original_Estimate	number	
Orig_Production_Units_Est	number	
Revised_Prodctn_Units_Est	number	
Status	string	
Total_Estimate	number	

Licensing and User Permission Requirements		/api/jobcost/costcode (GET)
DPP Licenses	Customer Licenses	User Permissions
JobCost Lookups	Job Cost API Lookups	APIs > Enter Time

Payroll endpoints



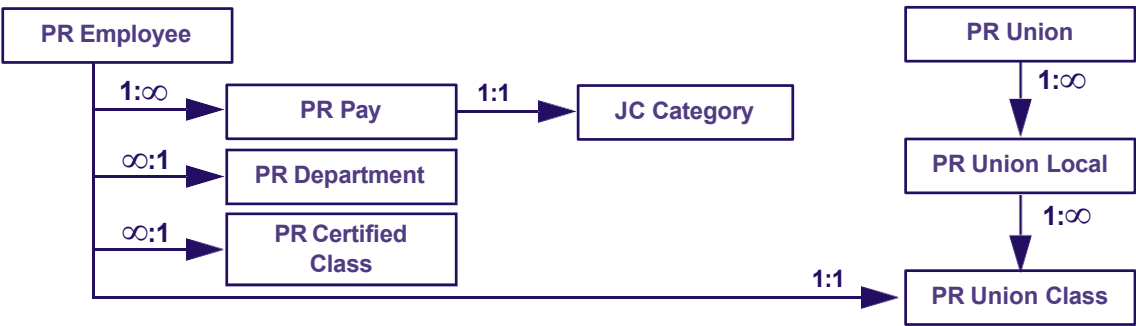
NOTE: In order to use interfacing applications that work with the Payroll endpoints, the customer must have licenses for one of the following: Payroll, Payroll Enter Time, or API Lookups. The customer's service plan must be active in order for the API Lookups to function properly.

Payroll (PR) lets users process payroll for their employees. (Subcontractor payments are issued through Accounts Payable). Employees are set up in Payroll, along with “pays,” or types of payroll payment methods. For example, different pays are required for salaried vs. hourly employees. Pays are assigned to a Job Cost category.

Employees can be assigned multiple pays. Users can also set up departments and assign employees to them—as well as certified classes (used for certified reporting as required by certain government jobs).

Users whose employees work with unions can set up unions, union locals (individual union chapters), and union classes (employee classifications based on experience, such as foreman, journeyman, and so on). Each union local has their own union class. Each employee can be assigned to a single union, local, and class.

To process payroll for hourly employees, users create time entry transactions and post them. Use the Payroll endpoints to fetch the list of employees, departments, pays, and unions, as well as to post time entries.



/api/payroll/pay (GET)

Gets the Payroll pay items. Each column in the response list can be used as a **SortField** value.

Request Parameters			/api/payroll/pay (GET)	
Parameter	Required	Description	Parameter type	Data type
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node			/api/payroll/pay (GET)
Attributes	Data type	Notes	
Description	string		
JC_Category	string	Pays are assigned a single Job Cost category (if categories are tracked).	
Pay_ID	string		
Pay_Type	string		
Salary	boolean		

Licensing and User Permission Requirements			/api/payroll/pay (GET)
DPP Licenses	Customer Licenses	User Permissions	
Payroll Lookups	Payroll API Lookups	API's > Enter Time	

/api/payroll/employee (GET)

Gets the Payroll employee list. Each column in the response list can be used as a **SortField** value.

Request Parameters					/api/payroll/employee (GET)
Parameter	Required	Description	Parameter type	Data type	
PREmployeeStatus		The PR employee status.	query	string	
SortDirection		The sort direction— Ascending or Descending .	query	string	
SortField		The sorted field.	query	string	
Skip		Skips the input quantity of records.	query	integer	
Take		Limits results to the input quantity.	query	integer	
X-DatabaseName	✓	The company data folder name.	header	string	
X-Credentials	✓	The user credentials token.	header	string	
X-DPPKey	✓	The DPP license key for this API.	header	string	

Response Class Data Node			/api/payroll/employee (GET)
Attributes	Data type	Notes	
Certified_Class	string	Used for certified reporting, as required by some government jobs.	
Department	string		
Employee	string		
Employee_Name	string		
Equipment	string	Employees can be associated with pieces of equipment they operate.	
EQ_Cost_Code	string		
JC_Cost_Code	string		
Job	string		
Pay_Group	string		

Response Class Data Node (Continued)			/api/payroll/employee (GET)
Attributes	Data type	Notes	
Pay_ID	string		
Rehire_Date	string		
Resident_State	string		
SM_Employee	boolean	Employees can be linked to employees in the Service Management module.	
Termination_Date	string		
Union_Class	string		
Union_ID	string		
Union_Local	string		
Use_Employee_Work_State	boolean		
WC_Code	string		
Workers_Comp_State	string		
Work_State	string		
Zip_Code	string		

Licensing and User Permission Requirements			/api/payroll/employee (GET)
DPP Licenses	Customer Licenses	User Permissions	
Payroll Lookups	Payroll API Lookups	APIs > Enter Time	

/api/payroll/time/submit (POST)

Submits extended COSA Timesheet. This endpoint accepts and returns JavaScript Object Notation (JSON) formatted objects using the Construction Open Standards Alliance (COSA) schema where available.

Request Parameters			/api/payroll/time/submit (POST)	
Parameter	Required	Description	Parameter type	Data type
timeSheet	✓	The PR timesheet payload. For the data model, see the next table.	body	See next table.
X-DatabaseName	✓	The company data folder name.	header	string
X-PRSFileName	✓	The name of the PRS file. Must be entered if named files are enabled for PRS files.	header	string
X-PRMFileName	✓	The name of the PRM file. Must be entered if named files are enabled for PRM files.	header	string
X-PRTNewFileName	✓	The name of the New PRT file. Must be entered if named files are on for PRT files.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/payroll/time/submit (POST)
TimeSheet Schema	Notes	
Company (string) BatchId (string) Sheet (list): Date (string) Shift (string) Start (string) End (string) Project (list): id (string) ProjectId (string) Name (string) Description (string) Employee (list): id (string) ref (string) FamilyName (string) GivenName (string) MiddleNames (string) PrefixTitles (string) SuffixTitles (string) PostalAddress (list): AddressLine1 (string) AddressLine2 (string) Town (string) Region (string) PostalCode (integer) Country (string) TelecomAddress (list): Telephone (string) Facsimile (string) Email (string)		

Response Class Data Node (Continued)		/api/payroll/time/submit (POST)
TimeSheet Schema		Notes
Hierarchy (list): Levels (list): Id (string) At (number), Text (string) Type (string) Notes (string) Payroll (list): PayPeriodEndDate (string) Expense (list): Code (string) Currency (string) Notes (string) text (string) Entries (list): LaborActivityId (string) Hours (list): Description (string) Type (string) text (string) Units (0), HoursExt (list): Amount (0), CertClass (string) Department (string) Misc1 (string) Misc2 (string) Start (string) End (string) Shift (string) WCCode (string) WCState (string) State (string) Rate (0) Locality (string) DebitAccount (string) Union (string) UnionLocal (string) UnionClass (string) Category (string) Equipment (list): ID (string) CostCode (string) Validation (list): Processed (true), ErrorMessages (string array)		

Licensing and User Permission Requirements			/api/payroll/time/submit (POST)
DPP Licenses	Customer Licenses	User Permissions	
Payroll Time Entry	Payroll Time Entry	APIs > Enter Time	

/api/payroll/unionclass (GET)

Gets the Payroll union classes. Each column in the response list can be used as a **SortField**.

Request Parameters			/api/payroll/unionclass (GET)	
Parameter	Required	Description	Parameter type	Data type
Union_ID		The PR union ID	query	string
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node			/api/payroll/unionclass (GET)	
Attributes	Data type	Notes		
Union_Class	string			
Union_Class_Description	string			
Union_ID	string			
Union_Local	string			

Licensing and User Permission Requirements			/api/payroll/unionclass (GET)	
DPP Licenses	Customer Licenses	User Permissions		
Payroll Lookups	Payroll API Lookups	APIs > Enter Time		

/api/payroll/union (GET)

Gets a list of the Payroll unions. Each column in the response list can be used as a **SortField** value.

Request Parameters			/api/payroll/union (GET)	
Parameter	Required	Description	Parameter type	Data type
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node			/api/payroll/union (GET)
Attributes	Data type	Notes	
Address_1	string		
Address_2	string		
City	string		
Contact_FAX_Number	string		
Contact_Name	string		
Contact_Phone_Number	string		
State	string		
Union_Description	string		
Union_ID	string		
Zip_Code	string		

Licensing and User Permission Requirements			/api/payroll/union (GET)
DPP Licenses	Customer Licenses	User Permissions	
Payroll Lookups	Payroll API Lookups	APIs > Enter Time	

/api/payroll/unionlocal (GET)

Gets Payroll union locals. Each column in the response list can be used as a **SortField** value.

Request Parameters					/api/payroll/unionlocal (GET)
Parameter	Required		Parameter type	Data type	
Union_ID		The union identifier.	query	string	
SortDirection		The sort direction— Ascending or Descending .	query	string	
SortField		The sorted field.	query	string	
Skip		Skips the input quantity of records.	query	integer	
Take		Limits results to the input quantity.	query	integer	
X-DatabaseName	✓	The company data folder name.	header	string	
X-Credentials	✓	The user credentials token.	header	string	
X-DPPKey	✓	The DPP license key for this API.	header	string	

Response Class Data Node			/api/payroll/unionlocal (GET)
Attributes	Data Type	Notes	
Address_1	string		
Address_2	string		
City	string		

Response Class Data Node (Continued)			/api/payroll/unionlocal (GET)
Attributes	Data Type	Notes	

Contact_FAX_Number	string	
Contact_Name	string	
Contact_Phone_Number	string	
Effective_Date	string	
Good_Thru_Date	string	
State	string	
Union_ID	string	
Union_Local	string	
Union_Local_Description	string	
Zip_Code	string	

Licensing and User Permission Requirements		/api/payroll/unionlocal (GET)
DPP Licenses	Customer Licenses	User Permissions
Payroll Lookups	Payroll API Lookups	APIs > Enter Time

/api/payroll/department (GET)

Gets the list of Payroll departments. Each column in the response list can be used as a **SortField** value.

Request Parameters			/api/payroll/department (GET)	
Parameter	Required		Parameter type	Data type
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node			/api/payroll/department (GET)	
Attributes	Data type	Notes		
Department	string			
Department_Name	string			

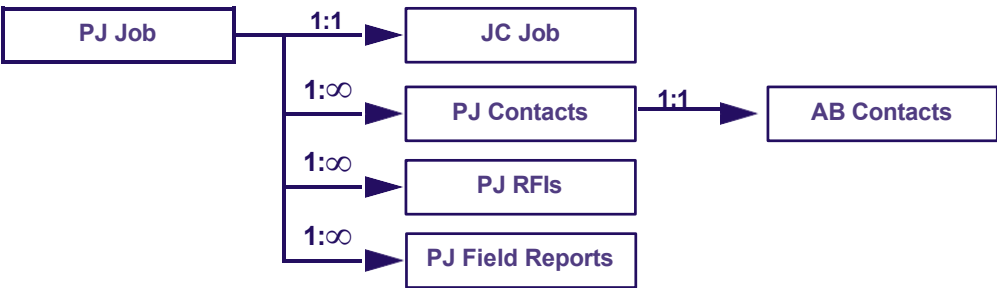
Licensing and User Permission Requirements			/api/payroll/department (GET)	
DPP Licenses	Customer Licenses	User Permissions		
Payroll Lookups	Payroll API Lookups	API's > Enter Time		

Project Management endpoints

Project Management (PJ) works together with Job Cost to track field operations and project documentation. Project Management jobs can be set up during the estimating process, before an organization wins the bid and before the budget is entered in Job Cost. In this early stage the project is used to track contacts and communications with the design team, such as RFIs (see “Project Management RFI endpoints” on page 60).

During construction, daily field reports are entered in Project Management (see “Project Management field report endpoints” on page 33).

Contacts added to a job are pulled from Address Book contacts (person or company).



/api/jobs/contacts (GET)

Gets the list of job contacts for a Project Management job index. Each column in the response list can be used as a **SortField** value.

Request Parameters			/api/jobs/contacts (GET)	
Parameter	Required		Parameter type	Data type
pjJob	✓	The sort direction— Ascending or Descending .	query	string
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/jobs/contacts (GET)
Attributes		Notes
PjJobIndex (integer) JobContacts (list): ContactId (string) ContactName (string) Type (string)		The Type of contact indicates whether the contact is a person or a company stored in Address Book.
The response class includes the Errors , Meta , and Success nodes described on page 3.		

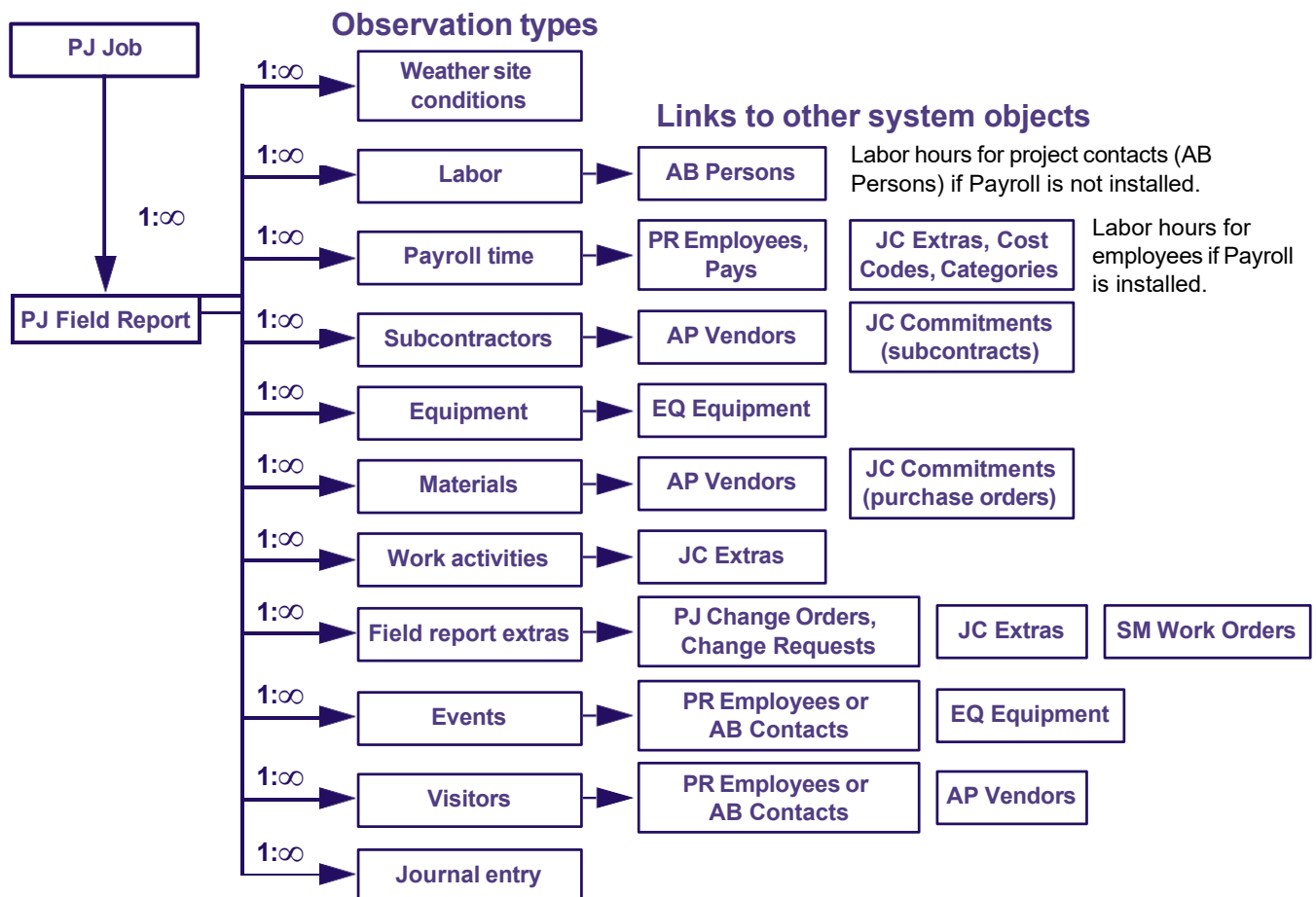
Project Management field report endpoints

Construction supervisors are expected to keep detailed notes on all aspects of jobsite activity in the form of daily reports, or field reports. Project Management (PJ) lets users enter field reports with structured information (organized in tabs [A]) about work activities, employee and subcontractor time worked, material deliveries, jobsite events such as accidents or injuries, and more.

Several of the tabs have custom fields [B], which can be modified in [Custom Descriptions](#).

Field report entries are linked to relevant data types throughout the system (as shown in the graphic below), and can generate transactions in Job Cost, Accounts Payable, Payroll, Contracts, Billing, and General Ledger. For example, information on the **Payroll Time** tab can be sent to Payroll as time entries.

Collectively these entries are known as observations. Three endpoints are provided for each observation type: fetch (GET), save (POST), and delete (POST).



Response class for field report observation POST endpoints

The response classes for the field report observation save (POST) and delete (POST) endpoints are identical, and are shown here.

Save (POST) responses classes		
Attributes	Data type	Notes
DateTimeStamp	string	
Index	integer	
Relationships	object	
The response class includes the Errors , Meta , and Success nodes.		

Delete (POST) response classes		
Attributes	Data type	Notes
Index	integer	
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports/extra/{extraIndex} (GET)

Gets the extra observation with the given index.

Request Parameters		/api/fieldreports/extra/{extraIndex} (GET)		
Parameter	Required		Parameter type	Data type
extraIndex	✓	The extra observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/fieldreports/extra/{extraindex} (GET)
Attributes	Notes	
CustomDate (string) CustomNumber (number) CustomText (string) Description (string) ExtraType (string) IdentificationNumber (string) IsCustomChecked (boolean) Notes (string) Subcontractor (string) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)	- The ExtraType is one of the following: Change Order Change Request Extra Work Order - The Subcontractor returns an Address Book company contact ID.	
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports/extra/save (POST)

Saves a field report extra observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/extra/save (POST)	
Parameter	Required		Parameter type	Data type
extraSaveRequestDto	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/extra/delete (POST)

Deletes the specified field report extra observation. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/extra/delete (POST)	
Parameter	Required	Description	Parameter type	Data type
deleteRequestDto	✓		body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/equipment/{equipmentIndex} (GET)

Gets the equipment observation with the given index.

Request Parameters		/api/fieldreports/equipment/{equipmentIndex} (GET)		
Parameter	Required		Parameter type	Data type
equipmentIndex	✓	The equipment observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/fieldreports/equipment/{equipmentIndex} (GET)
Attributes	Notes	
ActiveHours (number) CustomDate (string) CustomNumber (number) CustomText (string) Description (string) Equipment (string) IdleHours (number) IsCustomChecked (boolean) Notes (string) OwnershipOrRental (string) Reading (number) ReadingUnitOfMeasure (string) RentingParty (string) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)	The attributes starting with “Custom” can be modified in Custom Descriptions .	
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports/equipment/save (POST)

Saves a field report equipment observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/equipment/save (POST)	
Parameter	Required		Parameter type	Data type
equipmentObservation	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/equipment/delete (POST)

Deletes the specified field report equipment observation. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/equipment/delete (POST)	
Parameter	Required		Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/subcontractor/{subcontractorIndex} (GET)

Gets the subcontractor observation with the given index.

Request Parameters /api/fieldreports/subcontractor/{subcontractorIndex} (GET)				
Parameter	Required		Parameter type	Data type
subcontractorIndex	✓	The subcontractor observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node /api/fieldreports/subcontractor/{subcontractorIndex} (GET)	
Attributes	Notes
CustomDate (string) CustomNumber (number) CustomText (string) HoursWorked (list): Classification (string) HeadCount (integer) HoursWorked (number) SubcontractorHoursWorkedIndex (integer) IsCustomChecked (boolean) Notes (string) SubcontractorContact (string) Trade (string) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)	- The attributes starting with “Custom” can be modified in Custom Descriptions. - The SubcontractorContact returns an Address Book person contact ID.
The response class includes the Errors , Meta , and Success nodes.	

/api/fieldreports/subcontractor/save (POST)

Saves a field report subcontractor observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/subcontractor/save (POST)	
Parameter	Required		Parameter type	Data type
subcontractorSave	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/subcontractor/delete (POST)

Deletes the specified field report subcontractor observation. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/subcontractor/delete (POST)	
Parameter	Required		Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/visitor/{visitorIndex} (GET)

Gets the visitor observation with the given index.

Request Parameters			/api/fieldreports/visitor/{visitorIndex} (GET)	
Parameter	Required		Parameter type	Data type
visitorIndex	✓	The visitor observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/fieldreports/visitor/{visitorIndex} (GET)
Attributes	Notes	
ArrivalTime (string) CustomDate (string) CustomNumber (number) CustomText (string) DepartureTime (string) InternalFollowUp (string) IsCustomChecked (boolean) Notes (string) PersonVisited (string) VisitingCompany (string) Visitors (string) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)	• The attributes starting with “Custom” can be modified in Custom Descriptions. • The InternalFollowUp and PersonVisited attributes return an Address Book person contact ID. • The VisitingCompany attribute returns an Address Book company contact ID.	
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports/visitor/save (POST)

Saves a field report observation observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/visitor/save (POST)	
Parameter	Required		Parameter type	Data type
visitorSaveRequestDto	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/visitor/delete (POST)

Deletes the specified field report visitor observation.

Request Parameters			/api/fieldreports/visitor/delete (POST)	
Parameter	Required		Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/workactivities/{workactivitiesIndex} (GET)

Gets the workactivities observation with the given index.

Request Parameters		/api/fieldreports/workactivities/{workactivitiesIndex} (GET)		
Parameter	Required		Parameter type	Data type
workActivitiesIndex	✓	The work activities observation index to find	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/fieldreports/workactivities/{workactivitiesIndex} (GET)
Attributes	Notes	
Category (string) CostCode (string) CurrentPercentComplete (number) CurrentProductionUnitsInPlace (number) CustomDate (string) CustomNumber (number) CustomText (string) Description (string) EndDate (string) Extra (string) IsCustomChecked (boolean) Notes (string) PercentComplete (number) ProductionUnitsInPlace (number) ResponsibleCompany (string) StartDate (string) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)	• The attributes starting with “Custom” can be modified in Custom Descriptions. • The ResponsibleCompany returns an Address Book company contact ID.	
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports/workactivities/save (POST)

Saves a field report work activities observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/workactivities/save (POST)	
Parameter	Required		Parameter type	Data type
workActivitiesSaveRequestDto	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/workactivities/delete (POST)

Deletes the specified field report work activities observation. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/workactivities/delete (POST)	
Parameter	Required		Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/payrolltime/{payrolltimeIndex} (GET)

Gets the Payroll time observation with the given index.

Request Parameters		/api/fieldreports/payrolltime/{payrolltimeIndex} (GET)		
Parameter	Required		Parameter type	Data type
payrollTimeIndex	✓	The payroll time observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/fieldreports/payrolltime/{payrolltimeIndex} (GET)
Attributes	Notes	
AppOfOriginBatch (string) CostCode (string) CustomDate (string) CustomNumber (number) CustomText (string) Date (string) Employee (string) Extra (string) IsCustomChecked (boolean) Notes (string) PayId (string) UnitsOfWork (number) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)	• The attributes starting with “Custom” can be modified in Custom Descriptions. • The Extra attribute references the Job Cost extra, not the field report extra.	
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports/payrolltime/save (POST)

Saves a field report Payroll time observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/payrolltime/save (POST)	
Parameter	Required		Parameter type	Data type
payrollTimeSave	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/payrolltime/delete (POST)

Deletes the specified field report Payroll time observation. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/payrolltime/delete (POST)	
Parameter	Required		Parameter type	Data type
deleteRequestDto	✓	The delete request. Set Index as the payroll time observation index to delete.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/payrolltime/sendtopayroll (POST)

Sends Payroll time observations within a specific date range to Payroll.

Request Parameters /api/fieldreports/payrolltime/sendtopayroll (POST)				
Parameter	Required		Parameter type	Data type
sendRequestDto	✓	The send to payroll request.	body	FieldReportIndex (integer) PeriodBeginDate (string) PeriodEndDate (string)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string
X-PRMFileName	✓	The name of the Payroll master file. Must be entered if named files are used for PRM files.	header	string
X-PRSFilename	✓	The name of the Payroll standard file. Must be entered if named files are used for PRS files.	header	string
XPRTNewFileName	✓	The name of the Payroll transaction file. Must be entered if named files are used for PRT files.	header	string

Response Class Data Node /api/fieldreports/payrolltime/sendtopayroll (POST)	
Attributes	Notes
Data (string)	
The response class includes the Errors , Meta , and Success nodes.	

/api/fieldreports/event/{eventIndex} (GET)

Gets the event observation with the given index.

Request Parameters			/api/fieldreports/event/{eventIndex} (GET)	
Parameter	Required		Parameter type	Data type
eventIndex	✓	The event observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/fieldreports/event/{eventIndex} (GET)
Attributes	Notes	
CustomDate (string) CustomNumber (number) CustomText (string) Employee (string) Equipment (string) EquipmentDescription (string) EventType (string) FromTime (string) IsCustomChecked (boolean) Notes (string) PartyInvolved (string) ToTime (string) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)	• The attributes starting with “Custom” can be modified in Custom Descriptions. • The Employee and PartyInvolved attributes return Address Book person contact IDs.	
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports/event/save (POST)

Saves a field report event observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/event/save (POST)	
Parameter	Required		Parameter type	Data type
eventSaveRequest	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/event/delete (POST)

Deletes the specified field report event observation. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/event/delete (POST)	
Parameter	Required		Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/weathersiteconditions/{weathersiteconditionsIndex} (GET)

Gets the weather site conditions observation with the given index.

Request Parameters /api/fieldreports/weathersiteconditions/{weathersiteconditionsIndex} (GET)				
Parameter	Required		Parameter type	Data type
weatherSiteConditionsIndex	✓	The weather site conditions observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node /api/fieldreports/weathersiteconditions/{weathersiteconditionsIndex} (GET)	
Attributes	Notes
CustomDate (string) CustomNumber (number) CustomText (string) FromTime (string) GroundConditions (string) Humidity (string) IsCustomChecked (boolean) Notes (string) Precipitation (number) PrecipitationUnitOfMeasure (string) Sky (string) Temperature (number) TemperatureUnitOfMeasure (string) ToTime (string) Weather (string) Wind (string) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)	The attributes starting with "Custom" can be modified in Custom Descriptions .
The response class includes the Errors , Meta , and Success nodes.	

/api/fieldreports/weathersiteconditions/save (POST)

Saves a field report weather site conditions observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters /api/fieldreports/weathersiteconditions/save (POST)				
Parameter	Required		Parameter type	Data type
weatherSiteConditionsSave	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/weathersiteconditions/delete (POST)

Deletes the specified field report weather site conditions observation. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters /api/fieldreports/weathersiteconditions/delete (POST)				
Parameter	Required		Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/journalentry/{journalentryIndex} (GET)

Gets the journal entry observation with the given index.

Request Parameters		/api/fieldreports/journalentry/{journalentryIndex} (GET)		
Parameter	Required		Parameter type	Data type
journalEntryIndex	✓	The journal entry observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/fieldreports/journalentry/{journalentryIndex} (GET)
Attributes		Notes
Category (string) CustomDate (string) CustomNumber (number) CustomText (string) Description (string) IsCustomChecked (boolean) Notes (string) Time (string) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)		The attributes starting with “Custom” can be modified in Custom Descriptions.
The response class includes the Errors, Meta, and Success nodes.		

/api/fieldreports/journalentry/save (POST)

Saves a field report journal entry observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/journalentry/save (POST)	
Parameter	Required		Parameter type	Data type
journalEntrySave	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/journalentry/delete (POST)

Deletes the specified field report journal entry observation. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/journalentry/delete (POST)	
Parameter	Required		Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/material/{materialIndex} (GET)

Gets the materials observation with the given index.

Request Parameters			/api/fieldreports/material/{materialIndex} (GET)	
Parameter	Required		Parameter type	Data type
materialIndex	✓	The materials observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/fieldreports/material/{materialIndex} (GET)
Attributes	Notes	
CustomDate (string) CustomNumber (number) CustomText (string) Description (string) FreightCompany (string) IsCustomChecked (boolean) Notes (string) PurchasedFrom (string) PurchaseOrder (string) Quantity (number) QuantityUnitOfMeasure (string) ReceivedBy (string) ReceivedTime (string) TicketNumber (string) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)	• The attributes starting with “Custom” can be modified in Custom Descriptions. • The Purchase Order attribute references a Job Cost commitment of type “Purchase Order.” • The FreightCompany and PurchasedFrom attributes return Address Book company contact IDs. • The RecievedBy attribute returns an Address Book person contact ID.	
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports/material/save (POST)

Saves a field report material observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/material/save (POST)	
Parameter	Required		Parameter type	Data type
saveRequestDto	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/material/delete (POST)

Deletes the specified field report material observation. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/material/delete (POST)	
Parameter	Required		Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/{fieldReportIndex} (GET)

Gets the field report with the given index.

Request Parameters			/api/fieldreports/{fieldReportIndex} (GET)	
Parameter	Required		Parameter type	Data type
fieldReportIndex	✓	The field report observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/fieldreports/{fieldReportIndex} (GET)
Attributes		Notes
Equipment (list) Event (list) Extra (list) JournalEntry (list) Labor (list) Material (list) PayrollTime (list) Subcontractor (list) Visitor (list) WeatherSiteConditions (list) WorkActivities (list) Date (string) DateTimeStamp (string) Description (string) FieldReportIndex (integer) FieldReportType (string) IsFinalized (boolean) Number (string) JcJob (string) PreparedBy (string)	For the list attributes, see the corresponding response class for the individual endpoints.	
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports (GET)

Gets a list of field reports that match the given criteria.

Request Parameters			/api/fieldreports (GET)	
Parameter	Required		Parameter type	Data type
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/fieldreports (GET)
Attributes	Notes	
Date (string) DateTimeStamp (string) Description (string) FieldReportIndex (integer) FieldReportType (string) IsFinalized (boolean) Number (string) JcJob (string) PreparedBy (string)		
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports/fieldreports/save (POST)

Saves a field report (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/save (POST)	
Parameter	Required		Parameter type	Data type
fieldReportSaveRequestDto	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/fieldreports/delete (POST)

Deletes the specified field report. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/fieldreports/delete (POST)	
Parameter	Required	Description	Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/fieldreports/finalize (POST)

Finalizes the specified field report. See “Response class for field report observation POST endpoints” on page 34.



WARNING: Once this method is called, no more observations of any kind can be added to the field report. Also, no further changes can be made to the field report itself or any of its existing observations.

Request Parameters			/api/fieldreports/fieldreports/finalize (POST)	
Parameter	Required	Description	Parameter type	Data type
finalizeRequestDto	✓	The finalize request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string
X-JCTNewFileName	✓	The name of the New JCT file. Optionally used if named files are used for JCT files.	header	string
X-JCTCurrentFileName	✓	The name of the Current JCT file. Optionally used if named files are used for JCT files.	header	string

/api/fieldreports/labor/{laborIndex} (GET)

Gets the labor observation with the given index.

Request Parameters			/api/fieldreports/labor/{laborIndex} (GET)	
Parameter	Required		Parameter type	Data type
laborIndex	✓	The labor observation index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string

X-DPPKey	✓	The DPP license key for this API.	header	string
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Response Class Data Node		/api/fieldreports/labor/{laborIndex} (GET)
Attributes	Notes	
CustomDate (string) CustomNumber (number) CustomText (string) Employee (string) IsCustomChecked (boolean) Notes (string) OvertimeHoursWorked (number) RegularHoursWorked (number) FieldReportDateTimeStamp (string) FieldReportIndex (integer) Index (integer)	• The attributes starting with “Custom” can be modified in Custom Descriptions. • The Employee returns an Address Book person contact ID. (If the user has Payroll installed, they’ll use the /api/fieldreports/payrolltime endpoints to enter time for Payroll employees.)	
The response class includes the Errors , Meta , and Success nodes.		

/api/fieldreports/labor/save (POST)

Saves a field report labor observation (creates new or updates existing). See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/labor/save (POST)	
Parameter	Required		Parameter type	Data type
laborSaveRequest	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/fieldreports/labor/delete (POST)

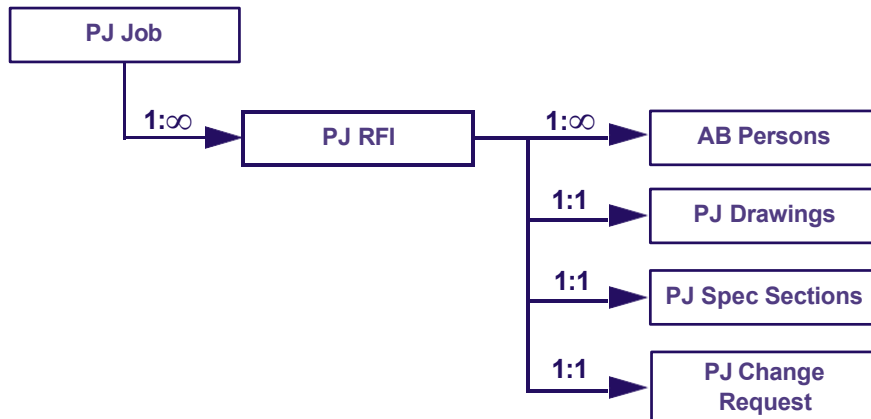
Deletes the specified field report labor observation. See “Response class for field report observation POST endpoints” on page 34.

Request Parameters			/api/fieldreports/labor/delete (POST)	
Parameter	Required		Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Project Management RFI endpoints

Estimators and project managers frequently need to query project owners, architects, and engineers about design details. These queries are known as RFIs, or Requests for Information, and can result in drawing revisions, change requests and change orders, commitment change orders, or other documentation.

RFI's are linked to relevant data types throughout the system (as shown in the graphic below).



/api/rfis/{index} (GET)

Gets a Project Management RFI with the given index.

Request Parameters			/api/rfis/{index} (GET)	
Parameter	Required		Parameter type	Data type
index	✓	The RFI index to find.	path	long
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/rfis/{index} (GET)
Attributes	Notes	
Amount (string) Answer (string) AnsweredBy (string) AnsweredDate (string) CC (string list) ChangeRequestIndex (integer) CustomFields (list) Date (string) DateTimeStamp (string) DrawingReference (string) ForwardedDate (string) ForwardedTo (string list) Index (integer) IsClosed (boolean) IsCostImpacting (boolean) IsScheduleImpacting (boolean) Notes (string) Number (string) PjJob (integer) Question (string) ReceivedFrom (string) ReceivedNumber (string) RequiredBy (string) ReturnedDate (string) SpecSection (string) Status (string) Subject (string) SubmittedBy (string) TimeImpact (string) To (string) Urgency (string)	• The AnsweredBy, SubmittedBy, and ReceivedFrom attributes return Address Book person contact IDs. • The CC attribute returns a list of Address Book person contact IDs.	
The response class includes the Errors , Meta , and Success nodes.		

/api/rfis (GET)

Gets a list of Project Management RFIs.

Request Parameters			/api/rfis (GET)	
Parameter	Required		Parameter type	Data type
SortDirection		The sort direction— Ascending or Descending .	query	string
SortField		The sorted field.	query	string
Skip		Skips the input quantity of records.	query	integer
Take		Limits results to the input quantity.	query	integer
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

Response Class Data Node		/api/rfis (GET)
Attributes	Notes	
Amount (string) Answer (string) AnsweredBy (string) AnsweredDate (string) CC (string list) ChangeRequestIndex (integer) CustomFields (list) Date (string) DateTimeStamp (string) DrawingReference (string) ForwardedDate (string) ForwardedTo (string list) Index (integer) IsClosed (boolean) IsCostImpacting (boolean) IsScheduleImpacting (boolean) Notes (string) Number (string) PjJob (integer) Question (string) ReceivedFrom (string) ReceivedNumber (string) RequiredBy (string) ReturnedDate (string) SpecSection (string) Status (string) Subject (string) SubmittedBy (string) TimeImpact (string) To (string) Urgency (string)	• The AnsweredBy, SubmittedBy, and ReceivedFrom attributes return Address Book person contact IDs. • The CC attribute returns a list of Address Book person contact IDs.	
The response class includes the Errors , Meta , and Success nodes.		

/api/rfis/save (POST)

Saves an RFI (creates new or updates existing).

Request Parameters			/api/rfis/save (POST)	
Parameter	Required		Parameter type	Data type
rfiSaveRequestDto	✓	The save request.	body	See response class for (GET)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/rfis/delete (POST)

Deletes the specified RFI.

Request Parameters			/api/rfis/delete (POST)	
Parameter	Required	Description	Parameter type	Data type
deleteRequestDto	✓	The delete request.	body	DateTimeStamp (string) Index (integer)
X-DatabaseName	✓	The company data folder name.	header	string
X-Credentials	✓	The user credentials token.	header	string
X-DPPKey	✓	The DPP license key for this API.	header	string

/api/rfis/nextnumber (GET)

Gets the next RFI number for the specified job.

Request Parameters			/api/rfis/nextnumber (GET)	
Parameter	Required		Parameter type	Data type
pjJob	✔	The Project Management job index.	query	long
X-DatabaseName	✔	The company data folder name.	header	string
X-Credentials	✔	The user credentials token.	header	string
X-DPPKey	✔	The DPP license key for this API.	header	string

Response Class Data Node		/api/rfis/nextnumber (GET)
Attributes	Notes	
PjJob (integer) NextNumber (string)		
The response class includes the Errors , Meta , and Success nodes.		