INEIGHT

Explore API Documentation

SelfService_Estimate_Job

Version 1.0

Last Modified: 11/14/2023

Last Modified By: Natalie Takacs

Change Log

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

Revision	Change Date	Description	Modified By
1.0	12/17/2019	Initial draft	Natalie Takacs

Contents

Overview

The **SelfService_Estimate_Jobs** API is one of multiple APIs comprising the data contained in the Estimate Job entity.

The Estimate Job entity mainly includes three tables, *SelfService_Estimate_Jobs*, *SelfService_Estimate_JobsCalculatedValues* and *SelfService_Estimate_JobsReferencedData*.

The *SelfService_Estimate_Jobs* table contains Job records as created and managed by the Estimate application.

The *SelfService_Estimate_JobsCalculatedValues* table contains data commonly calculated in some way for display in the application and can provide a convenient way to reference data as it appears in the application without needing to transform it for display purposes.

The *SelfService_Estimate_JobsReferencedData* contains the values of the many foreign key lookup values stored in the jobs table and can provide a convenient way to reference data as it appears in the application without needing to lookup the foreign key values from a lookup table.

Monetary values stored in the database are stored in their base currency and corresponding values displayed in the application have been modified based on the conversion factor of the items assigned currency.

Quantity values stored in the database are stored in their base measurement units and corresponding values displayed in the application are potentially modified based on the conversation factor of the items unit of measure
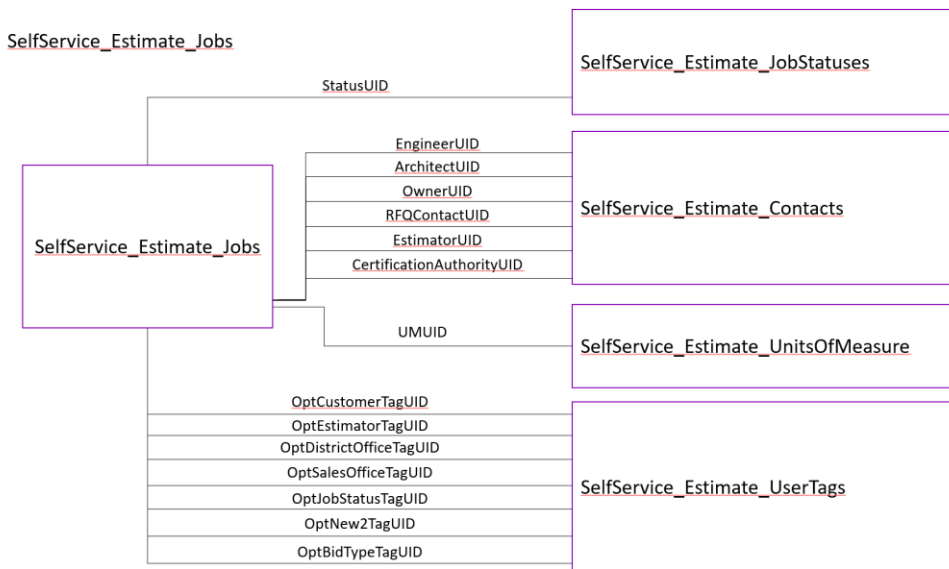
Relationships and Dependencies

From: Table	To: Table	Relationship	Cardinality[1]	Comment
Jobs (J)	JobStatuses (JS)	J.StatusUID = JS.UID	M:1	
Jobs (J)	Contacts (CE)	J.EngineerUID = CE.UID	M:1	
Jobs (J)	Contacts (CA)	J.ArchitectUID = CA.UID	M:1	
Jobs (J)	Contacts (CO)	J.OwnerUID = CO.UID	M:1	
Jobs (J)	Contacts (CR)	J.RFQContactUID = CR.UID	M:1	
Jobs (J)	Contacts (CT)	J.EstimatorUID = CT.UID	M:1	
Jobs (J)	UnitsOfMeasure (UM)	J.UMUID = UM.UID	M:1	
Jobs (J)	Contacts (CEA)	J.CertificationAuthorityUID = CEA.UID	M:1	
Jobs (J)	UserTags (TG1)	J.OptCustomerTagUID = TG1.UID	M:1	
Jobs (J)	UserTags (TG8)	J.OptEstimatorTagUID = TG8.UID	M:1	

Commented [AC1]: Not seeing this field in here but its in the HD Warehouse, did it get dropped somehow? Note you *can* still get to this information from the JobsReferencedData table, the actual value not the key

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[1] *1:M = One to Many, 1:1 = One to One, M:1 = Many to one*

Jobs (J)	UserTags (TG9)	J.OptDistrictOfficeTagUID = TG9.UID	M:1	
Jobs (J)	UserTags (TG10)	J.OptSalesOfficeTagUID = TG10.UID	M:1	
Jobs (J)	UserTags (TG11)	J.OptJobStatusTagUID = TG11.UID	M:1	
Jobs (J)	UserTags (TG12)	J.OptNew2TagUID = TG12.UID	M:1	
Jobs (J)	UserTags (TG13)	J.OptBidTypeTagUID = TG13.UID	M:1	

API Detail

Direction	From Project Suite
Pagination	50,000 Rows
Frequency	All Reporting APIs are used by calling a GET method at an interval determined by the customer. InEight suggests using these APIs on an infrequent basis (once per day) to avoid potential performance impact to live systems when the returned data set could be large.
Trigger Method(s)	All default OData filters are supported

Average Payload Size	Depends on date range selected	
APIM Name	SelfService_Estimate_Job	
Data Refresh/Delta/Incremental Loads		
Project Suite	Starting Version	21.5
	Ending Version	N/A

Supported Filters

All default OData filters are supported by this API.

Fields

Name	Type	CharMaxLength	NumericPrecision	DatePrecision	Product	PK
EstimateJobId	bigint	8	19	0	Estimate	X
EstimateJobUF	uniqueidentifier	16	0	0	Estimate	
EstimateJobUID	uniqueidentifier	16	0	0	Estimate	
AppVersion	nvarchar	100	0	0	Estimate	
EstimateArchitectUID	uniqueidentifier	16	0	0	Estimate	
AutoArchiveFilename	nvarchar	512	0	0	Estimate	
BidDate	datetime	8	23	3	Estimate	
BidLocation	nvarchar	100	0	0	Estimate	
BidTime	datetime	8	23	3	Estimate	
BillingMarkupAdHoc	float	8	53	0	Estimate	
BillingMarkupInstalledEquip	float	8	53	0	Estimate	
BillingMarkupLabor	float	8	53	0		
BillingMarkupMaterial	float	8	53	0	Estimate	
BillingMarkupOwnedEquip	float	8	53	0	Estimate	
BillingMarkupRentedEquip	float	8	53	0	Estimate	
BillingMarkupSubcontract	float	8	53	0	Estimate	
BillingMarkupSupply	float	8	53	0	Estimate	
BillingMarkupUnique	float	8	53	0	Estimate	
CanScheduleCreateCostItems	bit	1	1	0	Estimate	

EstimateCertificationAuthorityUID	uniqueidentifier	16	0	0	Estimate	
City	nvarchar	60	0	0	Estimate	
Code	nvarchar	400	0	0	Estimate	
ContractDuration	float	8	53	0	Estimate	
CostContributionWeightedById	int	4	10	0		
Country	nvarchar	100	0	0	Estimate	
County	nvarchar	60	0	0	Estimate	
CreatorUserName	nvarchar	100	0	0	Estimate	
DBE	float	8	53	0	Estimate	
Description	nvarchar	600	0	0	Estimate	
Duration	float	8	53	0	Estimate	
EstimateEngineerUID	uniqueidentifier	16	0	0	Estimate	
EstimateEstimatorUID	uniqueidentifier	16	0	0	Estimate	
ExcludeForecastItemFuelAccountCost	bit	1	1	0	Estimate	
ExcludeMaintenanceFromPlannedManHours	bit	1	1	0	Estimate	
FcastFinish	datetime	8	23	3	Estimate	
FcastStart	datetime	8	23	3		
IsAutoSaveEnabled	bit	1	1	0	Estimate	
IsEarnedToDateValueCappedByBudget	bit	1	1	0	Estimate	
IsForecastMethodRestrictionAllowed	bit	1	1	0	Estimate	
IsForecastProfitBasedOnCurrentUnitProfits	bit	1	1	0	Estimate	
IsForecastProfitBasedOnForecastPrice	bit	1	1	0	Estimate	
IsJobTrackingActive	bit	1	1	0	Estimate	
IsManHourRollUpBySummation	bit	1	1	0	Estimate	
IsOriginalBudgetEstablished	bit	1	1	0	Estimate	
IsPercentCompleteByCostContribution	bit	1	1	0	Estimate	
IsPercentCompleteByCurrentEstimate	bit	1	1	0	Estimate	
IsPercentCompleteByManHourContribution	bit	1	1	0	Estimate	

IsPhaseCodeAutoGenerated	bit	1	1	0		
IsPhaseCodeReadOnlyWhenAsBuilt	bit	1	1	0	Estim ate	
IsProtectionEnabled	bit	1	1	0	Estim ate	
IsQuantityFlagActive	bit	1	1	0	Estim ate	
IsSnapshot	bit	1	1	0	Estim ate	
IsSpreadingIndirectCostsByDirectCo stContribution	bit	1	1	0	Estim ate	
IsSpreadingIndirectCostsByIndividua lCostCategory	bit	1	1	0	Estim ate	
IsSpreadingIndirectCostsByTopLeve lCostCategory	bit	1	1	0	Estim ate	
IsTempJob	bit	1	1	0	Estim ate	
IsTemplate	bit	1	1	0	Estim ate	
IsTrackingAllowedForAnyItem	bit	1	1	0	Estim ate	
IsTrackingByAccount	bit	1	1	0	Estim ate	
IsTrackingMethodReadOnly	bit	1	1	0		
IsUsingCbsCodes	bit	1	1	0	Estim ate	
IsUsingPhaseCodes	bit	1	1	0	Estim ate	
IsUsingPlugDaysForPlannedProduct ion	bit	1	1	0	Estim ate	
LastSaved	datetime	8	23	3	Estim ate	
Latitude	float	8	53	0	Estim ate	
LiquidDamages	float	8	53	0	Estim ate	
Location	nvarchar	400	0	0	Estim ate	
Longitude	float	8	53	0	Estim ate	
ManHourContributionWeightedById	int	4	10	0	Estim ate	
MBE	float	8	53	0	Estim ate	
OBE1	float	8	53	0	Estim ate	
OBE2	float	8	53	0		
OBE3	float	8	53	0	Estim ate	
OBE4	float	8	53	0	Estim ate	
OBE5	float	8	53	0	Estim ate	

OBE6	float	8	53	0	Estim ate
OBE7	float	8	53	0	Estim ate
OpeningType	nvarchar	100	0	0	Estim ate
Operation	float	8	53	0	Estim ate
OptBidDueDate	datetime	8	23	3	Estim ate
OptBidTypeTagUID	uniqueiden tifier	16	0	0	Estim ate
OptCity	nvarchar	400	0	0	Estim ate
OptCustomerTagUID	uniqueiden tifier	16	0	0	Estim ate
OptDemobilizationEndDate	datetime	8	23	3	
OptDistrictOfficeTagUID	uniqueiden tifier	16	0	0	Estim ate
OptEstimatorTagUID	uniqueiden tifier	16	0	0	Estim ate
OptJobStatusTagUID	uniqueiden tifier	16	0	0	Estim ate
OptMobilizationStartDate	datetime	8	23	3	Estim ate
OptNew2TagUID	uniqueiden tifier	16	0	0	Estim ate
OptNew3Date	datetime	8	23	3	Estim ate
OptNew4Date	datetime	8	23	3	Estim ate
OptNew5	nvarchar	400	0	0	Estim ate
OptNewContract	nvarchar	400	0	0	Estim ate
OptOldContract	nvarchar	400	0	0	Estim ate
OptOutageFinishDate	datetime	8	23	3	Estim ate
OptOutageStartDate	datetime	8	23	3	
OptPlant	nvarchar	400	0	0	Estim ate
OptPrepareDate	datetime	8	23	3	Estim ate
OptProposalExpirationDate	datetime	8	23	3	Estim ate
OptSalesOfficeTagUID	uniqueiden tifier	16	0	0	Estim ate
OptState	nvarchar	400	0	0	Estim ate
OptSWO	nvarchar	400	0	0	Estim ate
OptWorkDays	float	8	53	0	Estim ate

OwnersEstimate	float	8	53	0	Estimate
Ownership	float	8	53	0	Estimate
EstimateOwnerUID	uniqueidentifier	16	0	0	Estimate
PhaseCodeStartingNumber	int	4	10	0	Estimate
PlanHolders	float	8	53	0	
ProposalType	nvarchar	100	0	0	Estimate
ProtectionPassword	nvarchar	150	0	0	Estimate
RestrictAccess	bit	1	1	0	Estimate
RestrictAccessBidWizard	bit	1	1	0	Estimate
EstimateRFQContactUID	uniqueidentifier	16	0	0	Estimate
SaveID	int	4	10	0	Estimate
State	nvarchar	60	0	0	Estimate
EstimateStatusUID	uniqueidentifier	16	0	0	Estimate
Tag1	uniqueidentifier	16	0	0	Estimate
Tag2	uniqueidentifier	16	0	0	Estimate
Tag3	uniqueidentifier	16	0	0	Estimate
TimeMeasure	nvarchar	100	0	0	Estimate
Type	nvarchar	400	0	0	Estimate
UniqueIdentifier	uniqueidentifier	16	0	0	Estimate
WBE	float	8	53	0	Estimate
BidMasterJobUID	uniqueidentifier	16	0	0	Estimate
LastUpdateID	int	4	10	0	Estimate
IsActive	bit	1	1	0	Report
CreatedById	bigint	8	19	0	Report
CreatedDate	datetimeoffset	10	34	7	Report
ModifiedById	bigint	8	19	0	Report
ModifiedDate	datetimeoffset	10	34	7	Report

Field Descriptions

Name	Description	Example
EstimateJobId	Unique identifier assigned to each record in the table	1
EstimateJobUF	System generated field, for internal use only	N/A
EstimateJobUID	Unique identifier for Job record in Estimate BidMaster. Not visible in the interface.	5376AA5E-8C85-43E8-9ACB-D7422000E832
AppVersion	Indicates the application version of InEight Estimate in use when the job was last saved.	20.2.2.0
EstimateArchitectUID	Identifier of the Address Book entry in the HDLibrary Contacts table. Found in the Architect selector field on the Cover Sheet tab of the Job Properties form	C885FADF-C02C-4852-901C-DE6BE46C5A87
AutoArchiveFilename	Field for internal use only	NULL
BidDate	Jobs bid date as indicated in the Bid Date date field on the Cover Sheet tab of the Job Properties form. Field is restricted to date values only.	2013-12-23 00:00:00.000
BidLocation	Jobs location of the bid opening as indicated in the Bid location field on the Cover Sheet tab of the Job Properties form	Engineer's Office
BidTime	Jobs bid time as indicated in the Bid Time field on the Cover Sheet tab of the Job Properties form. Field is restricted to values that can resolve to a valid time value only. The date portion of this fields value is not visible in the interface.	2005-10-28 12:00:00.000
BillingMarkupAdHoc	Value of billing markup percent applied to *Ad-Hoc* expense types found on the Job Tracking tab, Time & Expenses sub tab of the Job Properties form. Field is restricted to values only.	15
BillingMarkupInstalledEquip	Value of billing markup percent applied to *Installed Equipment* expense types found on the Job Tracking tab, Time & Expenses sub tab of the Job Properties form. Field is restricted to values only.	15
BillingMarkupLabor	Value of billing markup percent applied to *Labor* expense types found on the Job Tracking tab, Time & Expenses sub tab of the	20

Commented [AC2]: We appear to be missing the following fields which are in the DWH but not in this field list. Most of these fields appear on the Cost Basis tab and some may be rather important, such as the jobs tax rate.
• WorkHoursPerShift
• PayHoursPerShift
• ShiftsPerDay
• DaysPerWeek
• WageScale1
• WageScale2
• WageScale3
• PayItemLocked
• PricePrecision
• TrackingChanges
• IsMaintainingCBSStructure
• MaintainCBSLevel
• IsChangeDaysWhenManCountChanges
• PreserveOriginalDataSource
• BaseCurrencyName
• DefaultCurrencyName
• StandardTax

Additionally, we are missing the following categories of field, presuming they are/will be included in a different API, yet to be published?
• Cash Flow
• Schedule
• Equipment Maintenance
• Benchmarking

Commented [AC3]: @Cyrus, does this field appear in the interface or is it just used internally?

	Job Properties form. Field is restricted to values only.	
BillingMarkupMaterial	Value of billing markup percent applied to *Installed Material* expense types found on the Job Tracking tab, Time & Expenses sub tab of the Job Properties form. Field is restricted to values only.	15
BillingMarkupOwnedEquip	Value of billing markup percent applied to *Construction Equipment* expense types found on the Job Tracking tab, Time & Expenses sub tab of the Job Properties form. Field is restricted to values only.	15
BillingMarkupRentedEquip	Value of billing markup percent applied to *Rented Construction Equipment* expense types found on the Job Tracking tab, Time & Expenses sub tab of the Job Properties form. Field is restricted to values only.	15
BillingMarkupSubcontract	Value of billing markup percent applied to *Subcontracts* expense types found on the Job Tracking tab, Time & Expenses sub tab of the Job Properties form. Field is restricted to values only.	15
BillingMarkupSupply	Value of billing markup percent applied to *Supply* expense types found on the Job Tracking tab, Time & Expenses sub tab of the Job Properties form. Field is restricted to values only.	10
BillingMarkupUnique	Value of billing markup percent applied to *Unique* expense types found on the Job Tracking tab, Time & Expenses sub tab of the Job Properties form. Field is restricted to values only.	10
CanScheduleCreateCostItems	Indicates the state of the *Create Cost Items from Primavera WBS Elements/Activities* checkbox field found on the Schedule tab, Mapping Options sub tab of the Job Properties form (available when Integrated Schedule value is set to Primavera. The value of this field will be true (1) when the checkbox is checked	1 – True 0 – False
EstimateCertificationAuthorityUID	Identifier of the Address Book entry in the HDLibrary Contacts table. Found in the Certification Authority selector field on the	C885FADF-C02C-4852-901C-DE6BE46C5A87

Commented [AC4]: Presuming there is another API for the Schedule Setup fields, this should be removed from this API and moved there to keep all schedule fields together.

	Minority Setup tab of the Job Properties form	
City	Jobs city as indicated in the City field on the Cover Sheet tab of the Job Properties form	Phoenix
Code	Value of the Code field on the Overview tab of Job Properties in the Estimate Application. The value of this field is set when a job is created and cannot be modified through the interface.	Training Job
ContractDuration	Jobs contractual duration as indicated in the Contract Duration field on the Cover Sheet tab of the Job Properties form. Field is restricted to values only.	160
CostContributionWeightedById	Indicates the selected option in the drop down list found in the *Calculate Percent Complete for roll-ups, such as superior cost items and account codes by* group on the Job Tracking tab, Percent Complete sub tab of the Job Properties form.	0 – Current Estimate 1 – Current Budget
Country	Jobs country as indicated in the Country dropdown field on the Cover Sheet tab of the Job Properties form. Values are not restricted to list entries, and if the user chooses a selection from the list, the value appearing here will be prefixed with *@Geo_* followed by the selected Country Code	@Geo_US
County	Jobs county as indicated in the County field on the Cover Sheet tab of the Job Properties form	Maricopa
CreatorUserName	Credentials of the user that created the job. Found on the Security tab of the Job Properties form.	WFarr@hardollar.com
DBE	Participation percent goal for Disadvantaged Business Enterprises (DBE) as entered on the Minority Setup tab of the Job Properties form. Field is restricted to values only	5
Description	Jobs description. Found in the Description field on the Overview tab of the Job Properties form	Training Job - Maricopa County No. TM2924
Duration	Jobs anticipated duration as indicated in the Duration field on the Cover Sheet tab of the Job Properties form. Field is restricted to values only and is derived from the difference in days between the	150

Commented [AC5]: @Cyrus, I'm not sure where this field is mapped?

	Forecast Finish and Forecast Start fields.	
EstimateEngineerUID	Identifier of the Address Book entry in the HDLibrary Contacts table. Found in the Engineer selector field on the Cover Sheet tab of the Job Properties form	C7C08F89-AF00-47C5-BE4C-D1692A00B08E
EstimateEstimatorUID	Identifier of the Address Book entry in the HDLibrary Contacts table. Found in the Estimator selector field on the Cover Sheet tab of the Job Properties form	93B3C70D-2A3A-46A2-A9A0-B6E667402432
ExcludeForecastItemFuelAccountCost	Indicates the state of the *Remove Fuel Account Cost from Manual (Detailed ETC) Forecast Values* checkbox field found on the Job Tracking tab, Forecast Methods sub tab of the Job Properties form. The value of this field will be true (1) when the checkbox is checked	1 – True 0 – False
ExcludeMaintenanceFromPlannedManHours	Indicates the state of the *Exclude Maintenance Man-Hours from Planned Man-Hours* checkbox field found on the Job Tracking tab, Tracking Setup sub tab of the Job Properties form. The value of this field will be true (1) when the checkbox is checked	1 – True 0 – False
FcastFinish	Jobs anticipated completion date as indicated in the Forecast Finish date field on the Cover Sheet tab of the Job Properties form. Field is restricted to date values only and this field is derived from adding the value of the Duration field to the Forecast Start Date.	2014-06-05 00:00:00.000
FcastStart	Jobs anticipated start date as indicated in the Forecast Start date field on the Cover Sheet tab of the Job Properties form. Field is restricted to date values only.	2014-01-06 00:00:00.000
IsAutoSaveEnabled	Boolean value indicating if the job save event was invoked as a result of Autosave being enabled.	1 – True 0 – False
IsEarnedToDateValueCappedByBudget	Indicates the state of the *Cap Percent Complete at 100%* checkbox field found on the on the Job Tracking tab, Percent Complete sub tab of the Job Properties form. The value of this field will be true (1) when the checkbox is checked	1 – True 0 – False
IsForecastMethodRestrictionAllowed	Indicates the state of the *Restrict items above where progress*	1 – True 0 – False

Commented [AC6]: @Cyrus, please verify this is an accurate statement, since Autosave is a server side configuration, I'm not sure what the value of this field would be otherwise?

	and/or costs are recorded to the specific Forecast Methods checkbox field found on the Job Tracking tab, Forecast Methods sub tab of the Job Properties form. The value of this field will be true (1) when the checkbox is checked	
IsForecastProfitBasedOnCurrentUnitProfits	Indicates the selected state of the Forecast Profit Calculation group found on the Pricing tab of the Job Properties form. The value of this field will be true (1) when the radio option for *Forecast Profit = Sum of all Current Unit Profit (Item Recap Summary) values extended by Forecast Quantities (default)* is selected	1 – True 0 – False
IsForecastProfitBasedOnForecastPrice	Indicates the selected state of the Forecast Profit Calculation group found on the Pricing tab of the Job Properties form. The value of this field will be true (1) when the radio option for *Forecast Profit = Forecast Price – Total Cost (Direct Costs and Indirect Costs as defined in Cost Breakdown Structure)* is selected	1 – True 0 – False
IsJobTrackingActive	Indicates if the Job has been published for Job Tracking.	1 – True 0 – False
IsManHourRollUpBySummation	Indicates the state of the *Calculate Man-Hours earned for roll-up items by summing the Man-Hours Earned of the contributing items (regardless of the roll-up item's % complete)* checkbox field found on the Job Tracking tab, Tracking Setup sub tab of the Job Properties form. The value of this field will be true (1) when the checkbox is checked	1 – True 0 – False
IsOriginalBudgetEstablished	Indicates if the Jobs Original Budget and Current Budget values have been created	1 – True 0 – False
IsPercentCompleteByCostContribution	Indicates the selected state of the *Calculate Percent Complete for roll-ups, such as superior cost items and account codes by* group on the Job Tracking tab, Percent Complete sub tab of the Job Properties form. The value of this field will be true (1) when the radio option for *Cost Contribution each subordinate makes to the total cost of the superior item or*	1 – True 0 – False

	account code * weighted by is selected	
IsPercentCompleteByCurrentEstimate	Indicates the selected state of the *Calculate Percent Complete for individual cost items as a percentage of* group on the Job Tracking tab, Percent Complete sub tab of the Job Properties form.	1 – Current Estimate Planned Quantity 0 – Current Budget Planned Quantity
IsPercentCompleteByManHourContribution	Indicates the selected state of the *Calculate Percent Complete for roll-ups, such as superior cost items and account codes by* group on the Job Tracking tab, Percent Complete sub tab of the Job Properties form. The value of this field will be true (1) when the radio option for *Man-Hour Contribution each subordinate makes to the total man-hours of the superior item or account code * weighted by* is selected	1 – True 0 – False
IsPhaseCodeAutoGenerated	Indicates the state of the *Enable automatic Phase Code generation* checkbox field found on the Job Tracking tab, Tracking Setup sub tab of the Job Properties form. The value of this field will be true (1) when the checkbox is checked	1 – True 0 – False
IsPhaseCodeReadOnlyWhenAsBuilt	Indicates the state of the *Make an item's Phase Code read-only whenever the item has as-built entries* checkbox field found on the Job Tracking tab, Tracking Setup sub tab of the Job Properties form. The value of this field will be true (1) when the checkbox is checked	1 – True 0 – False
IsProtectionEnabled	Value of the Enable field level estimate protection checkbox found on the Security tab of the Job Properties form. When enabled, permits users to identify fields in the job as restricted and requiring a password to change the corresponding values	1 – True 0 – False
IsQuantityFlagActive	Indicates the state of the *Activate Quantity Checking* checkbox field found on the Cost Basis tab of the Job Properties form. The value of this field will be true (1) when the checkbox is checked	1 – True 0 – False
IsSnapshot	Indicates if the Job is a Snapshot. Snapshots appear as detail records in the Snapshot Register	1 – True 0 – False

	and do not appear in the Job Register	
IsSpreadingIndirectCostsByDirectCostContrib ution	Indicates the selected state of the Auto Price Options group found on the Pricing tab of the Job Properties form. The value of this field will be true (1) when the radio option for *Calculate using PI Cost Contribution only (regardless of Cost Category)* is selected	1 – True 0 – False
IsSpreadingIndirectCostsByIndividualCostCat egory	Indicates the selected state of the Auto Price Options group found on the Pricing tab of the Job Properties form. The value of this field will be true (1) when the radio option for *Calculate using PI Cost Contribution by Individual Cost Category (default)* is selected	1 – True 0 – False
IsSpreadingIndirectCostsByTopLevelCostCate gory	Indicates the selected state of the Auto Price Options group found on the Pricing tab of the Job Properties form. The value of this field will be true (1) when the radio option for *Calculate using PI Cost Contribution by Top-level Cost Category* is selected	1 – True 0 – False
IsTempJob	Indicates if the Job is a temporary job.	1 – True 0 – False
IsTemplate	Indicates if the Job is a Template. Template jobs appear as Template Register and do not appear in the Job Register	1 – True 0 – False
IsTrackingAllowedForAnyItem	Indicates the selected state of the *Allow as-built costs, hours and quantities to be recorded* group found on the Job Tracking tab, Tracking Setup sub tab of the Job Properties form. The value of this field will be true (1) when the radio option for *For any Tracking Item* is selected, otherwise it will be false (0)	1 – True 0 – False
IsTrackingByAccount	Indicates the selected state of the *Track job progress by (make Tracking Code equal to)* group found on the Job Tracking tab, Tracking Setup sub tab of the Job Properties form. The value of this field will be true (1) when the radio option for *Account Code* is selected	1 – True 0 – False
IsTrackingMethodReadOnly	Not used ???	0
IsUsingCbsCodes	Indicates the selected state of the *Track job progress by (make Tracking Code equal to)* group	1 – True 0 – False

Commented [AC7]: @Cyrus, under what conditions does this flag get set?

Commented [AC8]: @Cyrus, I'm not sure where this field is mapped?

	found on the Job Tracking tab, Tracking Setup sub tab of the Job Properties form. The value of this field will be true (1) when the radio option for *CBS Code* is selected	
IsUsingPhaseCodes	Indicates the selected state of the *Track job progress by (make Tracking Code equal to)* group found on the Job Tracking tab, Tracking Setup sub tab of the Job Properties form. The value of this field will be true (1) when the radio option for *Phase Code* is selected	1 – True 0 – False
IsUsingPlugDaysForPlannedProduction	Indicates the state of the *Use Plug days in the calculation of planned production* checkbox field found on the Job Tracking tab, Tracking Setup sub tab of the Job Properties form. The value of this field will be true (1) when the checkbox is checked	1 – True 0 – False
LastSaved	Date and time the job was last saved. Found in the Last Saved column of the Job Register.	7/27/2021 2:53:17 PM
Latitude	Jobs latitude as indicated in the Latitude field on the Cover Sheet tab of the Job Properties form. Field is restricted to values only.	42.0039178
LiquidDamages	Liquidated damages per unit of time as indicated in the Liquidated Damaged field on the Cover Sheet tab of the Job Properties form	1000
Location	Jobs location as indicated in the Location field on the Cover Sheet tab of the Job Properties form	I-10 MP 100 to MP 120
Longitude	Jobs longitude as indicated in the Longitude field on the Cover Sheet tab of the Job Properties form. Field is restricted to values only.	-87.9703461
ManHourContributionWeightedById	Not used ???	0
MBE	Participation percent goal for Minority Business Enterprises (MBE) as entered on the Minority Setup tab of the Job Properties form. Field is restricted to values only	0
OBE1	Participation percent goal for the first Other Business Enterprises (OBE1) field as entered on the Minority Setup tab of the Job Properties form. Field is restricted to values only	0

Commented [AC9]: @Cyrus, I'm not sure where this field is mapped?

OBE2	Participation percent goal for the second Other Business Enterprises (OBE2) field as entered on the Minority Setup tab of the Job Properties form. Field is restricted to values only	0
OBE3	Participation percent goal for the third Other Business Enterprises (OBE3) field as entered on the Minority Setup tab of the Job Properties form. Field is restricted to values only	0
OBE4	Participation percent goal for the forth Other Business Enterprises (OBE4) field as entered on the Minority Setup tab of the Job Properties form. Field is restricted to values only	0
OBE5	Participation percent goal for the fifth Other Business Enterprises (OBE5) field as entered on the Minority Setup tab of the Job Properties form. Field is restricted to values only	0
OBE6	Participation percent goal for the sixth Other Business Enterprises (OBE6) field as entered on the Minority Setup tab of the Job Properties form. Field is restricted to values only	0
OBE7	Participation percent goal for the seventh Other Business Enterprises (OBE7) field as entered on the Minority Setup tab of the Job Properties form. Field is restricted to values only	0
OpeningType	Type of bid submission as indicated in the Opening Type field on the Cover Sheet tab of the Job Properties form.	Public
Operation	Not used ???	3
OptBidDueDate	Value of the Tag 14 date type data field on the Job Folder Tags tab of the Job Properties form	2022-12-31 00:00:00.000
OptBidTypeTagUID	Identifier of the Tag value entry in the UserTags table. Found in the Tag 13 dropdown field on the Job Folder Tags tab of the Job Properties form	7018EDFF-F3C3-48E5-8CBB-17616A4273D9
OptCity	Value of the Tag 3 text type data field on the Job Folder Tags tab of the Job Properties form	Charleston
OptCustomerTagUID	Identifier of the Tag value entry in the UserTags table. Found in the Tag 1 dropdown field on the Job	7018EDFF-F3C3-48E5-8CBB-17616A4273D9

Commented [AC10]: @Cyrus, I'm not sure where this field is mapped?

	Folder Tags tab of the Job Properties form	
OptDemobilizationEndDate	Value of the Tag 19 date type data field on the Job Folder Tags tab of the Job Properties form	2022-12-31 00:00:00.000
OptDistrictOfficeTagUID	Identifier of the Tag value entry in the UserTags table. Found in the Tag 9 dropdown field on the Job Folder Tags tab of the Job Properties form	7018EDFF-F3C3-48E5-8CBB-17616A4273D9
OptEstimatorTagUID	Identifier of the Tag value entry in the UserTags table. Found in the Tag 8 dropdown field on the Job Folder Tags tab of the Job Properties form	7018EDFF-F3C3-48E5-8CBB-17616A4273D9
OptJobStatusTagUID	Identifier of the Tag value entry in the UserTags table. Found in the Tag 11 dropdown field on the Job Folder Tags tab of the Job Properties form	7018EDFF-F3C3-48E5-8CBB-17616A4273D9
OptMobilizationStartDate	Value of the Tag 16 date type data field on the Job Folder Tags tab of the Job Properties form	2022-12-31 00:00:00.000
OptNew2TagUID	Identifier of the Tag value entry in the UserTags table. Found in the Tag 12 dropdown field on the Job Folder Tags tab of the Job Properties form	7018EDFF-F3C3-48E5-8CBB-17616A4273D9
OptNew3Date	Value of the Tag 22 date type data field on the Job Folder Tags tab of the Job Properties form	2022-12-31 00:00:00.000
OptNew4Date	Value of the Tag 23 date type data field on the Job Folder Tags tab of the Job Properties form	2022-12-31 00:00:00.000
OptNew5	Value of the Tag 24 text type data field on the Job Folder Tags tab of the Job Properties form	More data goes here
OptNewContract	Value of the Tag 6 text type data field on the Job Folder Tags tab of the Job Properties form	X200892
OptOldContract	Value of the Tag 5 text type data field on the Job Folder Tags tab of the Job Properties form	X200875
OptOutageFinishDate	Value of the Tag 18 date type data field on the Job Folder Tags tab of the Job Properties form	2022-12-31 00:00:00.000
OptOutageStartDate	Value of the Tag 17 date type data field on the Job Folder Tags tab of the Job Properties form	2022-12-31 00:00:00.000
OptPlant	Value of the Tag 2 text type data field on the Job Folder Tags tab of the Job Properties form	Plant 2
OptPrepareDate	Value of the Tag 20 date type data field on the Job Folder Tags tab of the Job Properties form	2022-12-31 00:00:00.000

OptProposalExpirationDate	Value of the Tag 15 date type data field on the Job Folder Tags tab of the Job Properties form	2022-12-31 00:00:00.000
OptSalesOfficeTagUID	Identifier of the Tag value entry in the UserTags table. Found in the Tag 10 dropdown field on the Job Folder Tags tab of the Job Properties form	7018EDFF-F3C3-48E5-8CBB-17616A4273D9
OptState	Value of the Tag 4 dropdown field on the Job Folder Tags tab of the Job Properties form. Values are not restricted to list entries, and if the user chooses a selection from the list, the value appearing here will be prefixed with *@Geo_* followed by the Country Code and the selected State Code	@Geo_US_SC
OptSWO	Value of the Tag 7 text type data field on the Job Folder Tags tab of the Job Properties form	PO34567
OptWorkDays	Value of the Tag 21 value type data field on the Job Folder Tags tab of the Job Properties form. Field is restricted to values only.	100
OwnersEstimate	Jobs estimated value as indicated in the Owners Estimate field on the Cover Sheet tab of the Job Properties form. Field is restricted to values only.	6000000
Ownership	Not used ???	0
EstimateOwnerUID	Identifier of the Address Book entry in the HDLibrary Contacts table. Found in the Owner selector field on the Cover Sheet tab of the Job Properties form	26123DE5-5821-4E70-A8F4-CE9BDFAE6BEA
PhaseCodeStartingNumber	Value of the starting phase code number as prompted of the user when activating the *Enable automatic Phase Code generation* checkbox found on the Job Tracking tab, Tracking Setup sub tab of the Job Properties form. Field is restricted to values only.	1000
PlanHolders	Number of plan holders on the job as indicated in the Plan Holders field on the Cover Sheet tab of the Job Properties form. Field is restricted to values only.	5
ProposalType	Type of bid proposal as indicated in the Proposal Type field on the Cover Sheet tab of the Job Properties form.	Unit Price
ProtectionPassword	Encrypted value of field level protection password when the Enable field level estimate	

Commented [AC11]: @Cyrus, I'm not sure where this field is mapped?

	protection checkbox is checked. Can be found on the Security tab of the Job Properties form.	
RestrictAccess	Value of the Restrict access to this job to the following users checkbox found on the Security tab of the Job Properties form. When enabled, can be used to define a list of users capable of accessing the job. The JobAccess table contains the combined list of jobs and associated users.	1 – True 0 – False
RestrictAccessBidWizard	Value of the Allow ALL users with Bid Wizard access to use this job as a source checkbox found on the Security tab of the Job Properties form. When enabled, permits the contents of the job to be accessible through the Bid Wizard.	1 – True 0 – False
EstimateRFQContactUID	Identifier of the Address Book entry in the HDLibrary Contacts table. Found in the RFQ Contact selector field on the Cover Sheet tab of the Job Properties form	93B3C70D-2A3A-46A2-A9A0-B6E667402432
SaveID	Field for internal use only	290
State	Jobs state as indicated in the State dropdown field on the Cover Sheet tab of the Job Properties form. Values are not restricted to list entries, and if the user chooses a selection from the list, the value appearing here will be prefixed with @Geo_ followed by the selected Country Code (see Country field description) and the selected State Code	@Geo_US_AZ
EstimateStatusUID	Identifier of the Status field value from the JobStatuses Table. This field is located on the Overview tab of the Job Properties form.	876856DE-4F19-491E-9E68-46CAC769ABD1
Tag1	Not used???	
Tag2	Not used???	
Tag3	Not used???	
TimeMeasure	Value selected from the Time Measure drop down field on the Cover Sheet tab of Job Properties. Indicates how the contract time for the project is measured/defined.	Calendar Days Work Days Contract Days
Type	Jobs type description as indicated in the Type field on the Cover	Highway and General Engineering

Commented [AC12]: used to determine if a record has changed and needs to be updated when a save is invoked, prevents updating all data on a save event

Commented [AC13]: Note, table is not currently being populated.

	Sheet tab of the Job Properties form	
UniqueIdentifier	Not used ???	0814B45B-0A19-4F62-B928-D208832197DC
WBE	Participation percent goal for Women-Owned Business Enterprises (WBE) as entered on the Minority Setup tab of the Job Properties form. Field is restricted to values only	0
BidMasterJobUID	Identifier of the Job record from the Jobs table in the BidMaster database. This field is not unique in this table but is unique to an instance of a Job. Not visible in the interface.	5376AA5E-8C85-43E8-9ACB-D7422000E832
LastUpdateID	Field for internal use only	430
IsActive	Indicates if record is active. Please note: records will become inactive if a user un-syncs a job from Estimate application	1
CreatedById	System generated Id, will always represent the system, not actual users. This field is for internal use only.	1
CreatedDate	Date/timestamp record is entered	2022-02-21 17:47:05.4923658 +00:00
ModifiedById	System generated Id, will always represent the system, not actual users. This field is for internal use only.	1
ModifiedDate	Date/timestamp record is modified	2022-02-21 17:47:05.4923658 +00:00

Commented [AC14]: @Cyrus, I have no idea what this field is used for, help.

Commented [AC15]: used in conjunction with SaveID and used to determine if a record has changed and needs to be updated when a save is invoked, prevents updating all data on a save event

Sample

{"EstimateJobId":5155,"EstimateJobUF":"4d13358e-6e34-40cc-b5b3-1835b0986afd","EstimateJobUID":"4d13358e-6e34-40cc-b5b3-1835b0986afd","AppVersion":"21.10.0.1","EstimateArchitectUID":"c885fadf-c02c-4852-901c-de6be46c5a87","AutoArchiveFilename":null,"BidDate":"2020-01-06T00:00:00Z","BidLocation":"Engineer's Office","BidTime":"2020-01-06T12:00:00Z","BillingMarkupAdHoc":15.0,"BillingMarkupInstalledEquip":15.0,"BillingMarkupLabor":20.0,"BillingMarkupMaterial":15.0,"BillingMarkupOwnedEquip":15.0,"BillingMarkupRentedEquip":15.0,"BillingMarkupSubcontract":15.0,"BillingMarkupSupply":10.0,"BillingMarkupUnique":10.0,"CanScheduleCreateCostItems":false,"EstimateCertificationAuthorityUID":"26123de5-5821-4e70-a8f4-ce9bdfae6bea","City":"test","Code":"SB - First Job","ContractDuration":160.0,"CostContributionWeightedById":0,"Country":"@Geo_US","County":null,"CreatorUserName":"WMFarr","DBE":5.0,"Description":"Originally a copy of Training Job: 47 pay item (vs 21 in TJ); 2596 cost items (vs 102 in TJ); 5 levels max depth (vs 4 level max depth on cbs); 11,303 Resource Employments (vs 292 in TJ)","Duration":344.0,"EstimateEngineerUID":"c7c08f89-af00-47c5-be4c-d1692a00b08e","EstimateEstimatorUID":"93b3c70d-2a3a-46a2-a9a0-

b6e667402432","ExcludeForecastItemFuelAccountCost":false,"ExcludeMaintenanceFromPla
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01T00:00:00Z","IsAutoSaveEnabled":false,"IsEarnedToDateValueCappedByBudget":false,"
IsForecastMethodRestrictionAllowed":false,"IsForecastProfitBasedOnCurrentUnitProfit
s":true,"IsForecastProfitBasedOnForecastPrice":false,"IsJobTrackingActive":false,"I
sManHourRollUpBySummation":false,"IsOriginalBudgetEstablished":false,"IsPercentComp
leteByCostContribution":true,"IsPercentCompleteByCurrentEstimate":true,"IsPercentCo
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dOnlyWhenAsBuilt":false,"IsProtectionEnabled":false,"IsQuantityFlagActive":false,"I
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19T00:52:45.28Z","Latitude":0.0,"LiquidDamages":1000.0,"Location":"Omaha","Longitud
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ce9bdfae6bea","PhaseCodeStartingNumber":1000,"PlanHolders":5.0,"ProposalType":"Unit
Price","ProtectionPassword":null,"RestrictAccess":false,"RestrictAccessBidWizard":f
alse,"EstimateRFQContactUID":"93b3c70d-2a3a-46a2-a9a0-
b6e667402432","SaveID":393,"State":"@Geo_US_AZ","EstimateStatusUID":"876856de-4f19-
491e-9e68-46cac769abd1","Tag1":null,"Tag2":null,"Tag3":null,"TimeMeasure":"Contract
Days","Type":"Highway and General Engineering","UniqueIdentifier":"00c4aef4-2552-
4513-8531-a57a52e65ce8","WBE":0.0,"BidMasterJobUID":"4d13358e-6e34-40cc-b5b3-
1835b0986afd","LastUpdateID":9,"IsActive":true,"CreatedById":1,"CreatedDate":"2022-
02-21T17:47:21.089378Z","ModifiedById":1,"ModifiedDate":"2022-03-
19T00:54:04.4623454Z","IsBusinessOverheadMarkup":false,"IsDependentMarkupKeptWithSo
urce":false,"IsPriceCalcUsingBillingRates":false}

Data Validation

This data can be validated by opening the Job Properties form in an open job or from the Job Register in the Estimate Library

Figure 1: Job Properties, Cover Sheet tab

Figure 2: Estimate Library, Job Register

SelfService_Estimate_Job - Version 1.0

Code	In Use	Description	Status	Schedule	Location	City	County	State	Country	Latitude	Longitude
Training Job	✓	Training Job - Maricopa County No. TM2...	Bidding	Primavera	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	0.00000	
Training Job - Batch Forecast	☐	Training Job - Maricopa County No. TM2...	Bidding	Primavera	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	0.00000	
Training Job - Bid Pricing	☐	Training Job - Maricopa County No. TM2...	Bidding	Primavera	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	0.00000	
Training Job - Billing Rates	☐	Training Job - Maricopa County No. TM2...	Bidding	Microsoft Proj...	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	0.00000	
Training Job - Demo	☐	Training Job - Maricopa County No. TM2...	Bidding	Microsoft Proj...	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	0.00000	
Training Job - Environmental	☐	Environmental Work	Bidding	Microsoft Proj...	Salt River basin	Phoenix	Maricopa	Arizona	Usa	0.00000	
Training Job - Markup	☐	Training Job - Maricopa County No. TM2...	Bidding	Microsoft Proj...	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	0.00000	
Training Job - Mining	☐	Starburst Mine Phase II	05 - Awarded	Microsoft Proj...	Chile	Santiago		Los Lagos	Chile	0.00000	
Training Job - Mobilization	☐	Uses Embeded Workbook and Google Ma...	Bidding	Primavera						0.00000	
Training Job - Oil and Gas Pipeline	☐	Northwest Pipeline	02 - Estimating	Microsoft Proj...	North America			Washing...	USA	0.00000	
Training Job - Power and Process	☐	Platform Z Compressor Upgrade	Bidding	Primavera	North Shore UK	North ...			UK	0.00000	
Training Job - Reporting	☐	Training Job - Maricopa County No. TM2...	Bidding	Microsoft Proj...	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	0.00000	
Training Job - STO	☐	Plant 21 Outage North Shore	05 - Awarded	Microsoft Proj...	North Shore UK	Wilmin...		CA	US	0.00000	
Training Job BM	☐	Training Job - Maricopa County No. TM2...	Bidding	Primavera	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	33.47017	-11
Training Job Quote	☐	Training Job - Maricopa County No. TM2...	Bidding	Microsoft Proj...	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	0.00000	
Training Job Trench Assembly	☐	Training Job - Maricopa County No. TM2...	Bidding	Microsoft Proj...	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	0.00000	
Training Job with MAG Specs	☐	Includes MAG specs in the CIA Notes fiel...	Bidding	Primavera	I-10 MP 100 to MP ...	Phoenix	Maricopa	Arizona	United Stat...	0.00000	
Tucson 30 - Plug Days 2020 05 11	☐	Tucson 30 CCTV and LGDS	Bidding	Microsoft Proj...						0.00000	
U2905	☐	CS4B Hixon - New Facility	Bidding	Primavera	CS4B					0.00000	
UtilityBldg	☐	NS Utility Bldg Expansion	05 - Awarded	Microsoft Proj...	North Shore UK			ID	USA	0.00000	

499