INEIGHT®

Master Data – Employees Integration Specification





Changelog

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

Rev	Date	Description
2.0	06-JUNE-2019	Copied from original template Added draft data for Employees_Patch Published revision.
3.0	02-OCT-2019	Updated information for Employee_Patch Added Employees_Get Modified multiple descriptions of Employee fields for clarity. Updated <u>Employees (Post)</u> , <u>Employees (Patch)</u> , <u>Employees (Get)</u> . Deprecated EmailAddress, WorkPhoneNumber, WorkCellPhoneNumber, DateFormat, DecimalFormat fields. Published revision.
4.0	15-SEP-2020	Updated UoMName in <u>Crafts</u> and <u>Employees (Post)</u> field descriptions. Field accepts either the Name or SourceSystemId of a valid UOM record. Added note in Union Payroll Indicators <u>Sample JSON</u> . Deprecated Language field from <u>Employees (Post)</u> , <u>Employees (Patch)</u> , <u>Employees (Get)</u> . Published revision (Release 20.5)
5.0	29-JAN-2021	Added integrations for <u>Contacts (Import)</u> and <u>Contacts (Get)</u> . Added new integration for <u>Operational Resources</u> . Published revision (Release 20.11).
6.0	03-APR-2021	Added integrations for <u>Markets (Import)</u> and <u>Markets (Get)</u> . Published revision (Release 21.3).
7.0	06-JAN-2022	Updated to include integrations for <u>UOM</u> , <u>General Ledger</u> , <u>Incoterms</u> , and <u>Payment</u> <u>Terms</u> . Published revision (Release 21.12).
8.0	11-MAY-2022	Added VendorAddresses array and associated fields to <u>Vendors</u> . Published revision (Release 22.2).
9.0	12-JUL-2022	Added Status field to <u>Vendors</u> . Published revision (Release 22.4).
10.0	29-SEP-2023	Reviewed and update document for clarification. Published revision (Release 23.8).
11.0	07-OCT-2024	Deleted IsActive field and added Status field in <u>General Ledger</u> , <u>Incoterms</u> , and <u>Payment Terms</u> . Updated APIM Name to match what is shown in APIM. Published revision (Release 24.9).
12.0	29-MAY-2025	Updated Error messages, Fields, and Field descriptions sections for Trades, Crafts, Vendors, Employees (POST), Contacts, General Ledger, Incoterms, and Payment Terms.



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Overview

Integrations in This Document

Integration	Description
Trades	The Trades Integration allows InEight customers to provide a complete list of trades or individual records as maintenance of the master list. Trades are the top tier of the Employee hierarchy (Trade > Craft > Employee) and are used to filter for either a craft or specific employee resources.
Crafts	The Crafts Integration allows InEight customers to provide a complete list of crafts or individual records as maintenance of the master list. Crafts are the middle tier of the Employee hierarchy (Trade > Craft > Employee) and are used to assign general categories of resources that may be needed on a Work Plan or to filter on specific employee resources.
Vendors	The Vendors (Import) integration allows customers to maintain a master list of all the Vendors that can be used in any Project. The Vendors (Get) integration provides the full list of Vendors available for use within the customer environment.
Unions	This integration allows a customer to maintain a master list of Unions in InEight. Unions can be associated with Employees and Crafts at either the Account (all projects), or specified Project levels. These associations can be created and maintained either in their own (separate) integrations, or through the InEight UI.
Union Payroll Indicators	This integration allows an external system to maintain an association of specific Payroll Indicators created in InEight Plan to a Union and/or a specific Employee. This determines what Payroll Indicators are valid by a given Union or specific Employee, utilized in Time Center.
Employees (Post)	This integration allows InEight customers to provide a list of all employee resources for their entire organization, and to maintain the list as employees are hired, terminated, or details of their employment change.
Employees (Patch)	Provides a method to update Employee records without providing details for all fields. Only the unique record identifier and the specific fields that should be updated will need to be provided. This integration is useful when there is specific content of Employee records in InEight that are not managed by a customer's HR or ERP system. For example, if Employee PINs are solely managed in InEight and updating an entire Employee record using the Employees (Post) integration will cause an existing PIN to be nulled, the Employee Patch integration can be used to update only specific parts of Employee records and leave the InEight managed PIN intact.
Employees (Get)	This integration provides all Employee records created in InEight for use in any project.
Contacts	These integrations allow a customer to import and export information for their master list of contacts from their internal systems into the InEight cloud platform and from the InEight system to external systems. The integrations allow customers to create and maintain their master list of contacts, which are used for various business functions in multiple InEight cloud applications.



Integration	Description					
Markets	These integrations allow a customer to import and export information for their master list of markets from their internal systems into the InEight cloud platform and from the InEight system to external systems. The integrations allow customers to create and maintain their master list of markets, which are used for various business functions in multiple InEight cloud applications.					
Currencies	Provides the full list of currencies available for use within the customer environment.					
Unit of Measure	Provides the full list of the units of measure available for use within the customer environment.					
General Ledger	This integration allows a customer to import general ledger accounts/records that are used to track and record financial transactions.					
Incoterms	This integration allows a customer to import Incoterms [®] values for sale of goods in international transactions.					
Payment Terms	This integration allows a customer to import payment terms, which determine when a vendor must be paid, period between payments, discounts when applicable, any exceptions, etc.					



Relationships and Dependencies

Employee or User

Within the system, anyone can be a user, an employee, or both a user and an employee. Employees are resources in the InEight system that are listed as operational resources and can be assigned to work packages, daily plans, or weekly timesheets. For example, when creating a daily plan in the Plan application an employee can be assigned to work items and time can be recorded for them. Users are different from employees in that they have specific login credentials and are licensed to utilize functionality within InEight applications. Users who do not also have an associated Employee record are not resources in InEight and cannot be assigned to work items.

Employees, Trades, and Crafts

In the InEight system, employees can be categorized by the type of work they perform (trade) and their proficiency level for that work (craft). This categorization is hierarchical and only allows 1:1 assignments of trade to craft, and craft to employee. The table shows examples of the relationships between trades and crafts.

Trade	Craft
Carpenter	 Journeyman Carpenter Carpenter I Carpenter II Apprentice Carpenter
Pipefitter	Journey PipefitterPipefitter II
Equipment Operator	 Class II Operator Crane Operator Bulldozer Operator
Steelworker	 Apprentice Steelworker Steelworker III Master Steelworker

To support the hierarchy, trades must be present before crafts, and crafts must be present before employees. Unions and vendors are optional associations to employees, but also must be present prior to employees to create the association through integration.

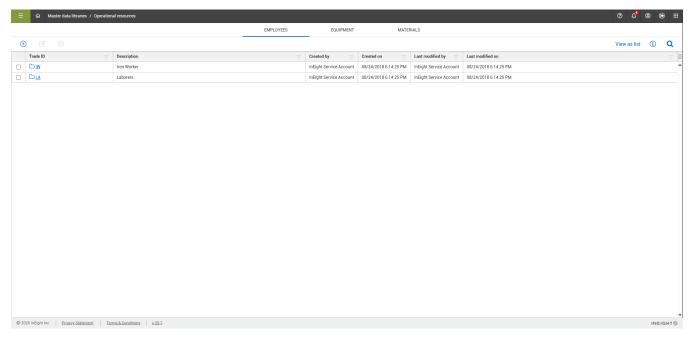


Import trades into the cloud platform using the API Upsert Trades, or manually create them through the Operational Resources UI.

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			EMPLOYEES	EQUIPMENT		MATERIALS			
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Employee ID 🕇	Employee name	Trade	Craft	UoM	÷ Er	mployee State (j)			
≰ ₀ 00000001		IW	IWJS	Hour	Ac	ctive			
≰ ₀ 00000002		IW	IWJS	Hour	Ad	ctive			
≰ ₀ 00000003		LA	LAJM	Hour	Ad	ctive			
≰ ₀ 00240370		IW	IWJS	Hour	Ad	ctive			
≰ ₀ 00240641		IW	IWJS	Hour	Ac	ctive			
≰ ₀ 00364112		LA	LAJM	Hour	Ac	ctive			
🕵 IN8-10010		IW	IWJS	Hour	Ac	ctive			
≰, IN8-10011		IW	IWJS	Hour	Ac	ctive			
≰. IN8-10012		LA	LAJM	Hour	Ac	ctive			
📌 IN8-10013		IW	IWJS	Hour	Ac	ctive			
≰n IN8-10014		IW	IWJS	Hour	Ac	ctive			
≰n IN8-10015		LA	LAJM	Hour	Ac	ctive			
≰, IN8-10016		LA	LAJM	Hour	Ac	ctive			
≰n IN8-10017		IW	IWJS	Hour	Ac	ctive			
≰n IN8-10018		IW	IWJS	Hour	A	ctive			
≰n IN8-10019		LA	LAJM	Hour	A	ctive			
≰n IN8-10020		LA	LAJM	Hour	A	ctive			
≰n IN8-10021		LA	LAJM	Hour	A	ctive			
≰n IN8-10022		LA	LAJM	Hour	A	ctive			
≰n IN8-10023		LA	LAJM	Hour	A	ctive			
≰n IN8-10024		LA	LAJM	Hour	Ac	ctive			
≰. IN8-10025		LA	LAJM	Hour	A	ctive			
≰n IN8-10026		LA	LAJM	Hour	Ac	ctive			
🖈 Siva		IW	IWJS	Hour	A	ctive			

Operational resources (Trade) view in resource library

Import all the crafts and associate them to their respective trades in the cloud platform using the API Upsert Crafts, or manually create crafts in the Operational Resources UI.



Operational resources (Craft) view in resource library



Vendors

Individual employee records can optionally be associated to a Vendor. When this association exists, a user (also associated to a vendor) creating a work plan can only select employees for assignment that match their vendor code.

Vendors can also be assigned to a craft. Like employees, when this association exists, users creating work plans can only use crafts that match the user's vendor code.

Import the vendor list using API Upsert Vendors, or manually create vendors in the Resource Library UI.

				VENDORS VENDOR TYPES							
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	ID	Name	Alternate name	Туре	Country / Region	State	Example Engineer		\times		
	T	T	T	Ţ	T		Example Engineer				
	20100201	Architectural Designs, Inc			United States Of America	Arizona	ID	20100206			
	20100202	Arizona Department of Transportation.			United States Of America	Arizona	Alternate name	20100200			
	20100203	BA Blacktop.			United States Of America	Arizona	Type Vendor tax ID	20100206 Available			
	20100204	Bayhill Contracting.			United States Of America	Arizona	Vendor tax jurisdiction				
	20100205	Example Architect.			United States Of America	Arizona	Status				
	20100206	Example Engineer.			United States Of America	Arizona	Default currency				
	20100207	Example Owner.			United States Of America	Arizona	Default payment terms				
	20100208	Example Prime Contractor 1.			United States Of America	Arizona	Default incoterms				
	20100209	Example Prime Contractor 2.			United States Of America	Arizona	Default incoterms location	Destination			
	20100210	Example Prime Contractor 3.			United States Of America	Arizona	Primary address				
	20100211	Example Sub #1.			United States Of America	Arizona	Country / Region	United States (
	20100212	Example Sub #3.			United States Of America	Arizona	Address 1 Address 2	200 First Street Hometown	200 First Street	t Suit	
	20100213	Example Sub #5 MBE.			United States Of America	Arizona	City				
	20100214	Example Sub #6 WBE.			United States Of America	Arizona	State	Arizona 889002			
	20100215	Example Sub #7.			United States Of America	Arizona	Postal / Zip code Phone number	111-121-2121			
	20100216	Example Sub #8.			United States Of America	Arizona	Fax number	222-222-3333			
	20100217	Example Sub #9.			United States Of America	Arizona	Remit to address				
	20100218	Example Vendor 1.			United States Of America	Arizona	Country / Region				
	20100219	Example Vendor 2.			United States Of America	Arizona	Address 1				
	20100220	Example Vendor 3.			United States Of America	Arizona	Address 2				
	20100221	Example Vendor 4 DBE			United States Of America	Arizona	City State				
	20100222	Example Vendor 5 MBE.			United States Of America	Arizona	Postal / Zip code				

Vendors view in resource library

Unions

Individual Employee records can be optionally associated to a union. This association drives the default assignment of a union for the employee within projects and estimated hourly pay based on Craft records assigned to a union.

When an employee is assigned to a union, their craft assignment must also be assigned to the same union, otherwise the craft cannot be assigned to the employee. Unions can also be assigned to a craft. This association limits the use of that craft to the union it was assigned.



Union Payroll Indicators

Payroll indicators provide optional encoding that can be used by a payroll system to identify attendance, premiums, and extra pay. Specific payroll indicators that have been pre-defined can be directly associated to a union and/or an employee. In both cases, the association limits which indicators can be used on a Daily Plan at the intersection of an employee and a time record for the day. When associated to a union, the limitation is based on the union to which the employee is assigned. When associated directly to the employee, the limitation is based on the direct assignment although, you can assign payroll indicators to the employee at the project level.

Currently, there is nowhere in the UI to make the assignment of payroll indicators to unions, so it must be done via the Upsert UnionPayrollIndicators API. Without making these assignments, employees will have an error in Time Center whenever timecard records are submitted with extra pay or premiums assigned to them on a daily plan that are not listed on their employee or union record.

Accounting Ledger

A general ledger (GL) is a set of numbered accounts a business uses to keep track of its financial transactions and to prepare financial reports. A chart of accounts lists all the accounts in the general ledger, which can number in the thousands for a large business. Using this API, users can import their GL accounting records into the InEight cloud platform. The general ledger accounts are used on InEight Contract and InEight Control line items.

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	General ledger accounts	General ledger description - EN	State	General ledger description - ES-MX	General ledger description - FR-GA	General ledger description - PT-BR	General ledger					
	501010	Consumption - Raw Materials	Active	ES_Consumption - Raw Materials_ES	FR_Consumption - Raw Materials_FR	MP_Consumption - Raw Materials_MP	NL_Consumption					
	501030	Consumption - Quality Control	Active	ES_Consumption - Quality ControLES	FR_Consumption - Guality ControLFR	MP_Concumption - Quality ControLMP	NL_Consumption					
	502020	Inv Rea-Gain/Loss Inventory Variance	Active	ES_Inv Res-Gain/Loss Inventory Variance_ES	FR_Inv Res-Gain/Loss Inventory Variance_FR	MP_Inv Res-Gain/Loss Inventory Variance_MP	NL_Inv Bes-Ga					
	502050	Inv Res-Receipt without PO	Active	ES_inv Res-Receipt without PO_ES	FR_Inv Res-Receipt without PO_FR	MP_Inv Res-Receipt without PO_MP	NL_Inv Res-Re					
	502120	Inv Chg-Scrapped Material	Active	ES_Inv Chg-Scrapped Material_ES	FR, Inv Chg-Scrapped Material, FR	MP_Inv Chg-Scrapped Material_MP	NL, Inv Chg-So					
	510115	Labor-Additional Wages	Active	ES_Labor-Additional Wager_ES	FR_Labor-Additional Wages_FR	MP_Labor-Additional Wages_MP	N_Labor-Add					
	510250	Labor-Lump Sum Cost Moves	Active	ES_Labor-Lump Sum Ceat Moves_ES	FR_Labor-Lump Sum Cost Moves_FR	MP_Labor-Lump Sum Cost Moves_MP	NL_Labor-Lam					
	510335	Labor-Relocation Gross-up	Active	ES_Labor-Relocation Gross-up_ES	FR_Labor-Relocation Gross-up_FR	MP_Labor-Relocation Gross-up_MP	NL_Labor-Relo					
	511110	EE-Recruiting	Active	ES.EE-Recruiting.ES	FR_EC-Recruiting_FR	MP_EE-Recruiting_MP	NL.EE-Recruit					
	511140	EE-Moving Expense	Active	ES_EE-Moving Expense_ES	FR_EE-Moving Expense_FR	MP_EE-Moving Expense_MP	NL_EE-Moving					
	511150	EE-Temporary/Rental Housing	Active	ES_EE-Temporary/Rental Housing_ES	FR_EE-Temporary/Rental Housing_FR	MP_EE-Temporary/Rental Housing_MP	NL_EE-Tempor					
	511165	EE-Awards	Active	ES_EE-Awards_ES	FR_EC-Awards_FR	MP_EE-Awards_MP	NL_EE-Awards					
	511175	EE-Professional dues / certification	Active	ES_EE-Professional dues / certification_ES	FR_EE-Professional dues / certification_FR	MP_EE-Professional dues / certification_MP	NL_EE-Profess					
	511180	EE-Subscriptions	Active	ES_EE-Subscriptions_ES	FR_EE-Subscriptions_FR	MP_EE-Subscriptions_MP	NL_EE-Subscri					
	511210	Training-Consultants	Active	ES_Training-Consultants_ES	FR_Training-Consultants_FR	MP_Training-Consultants_MP	NL_Training-Co					
	511215	Training-Materials	Active	ES_Training-Materials_ES	FR_Training-Materials_FR	MP_Training-Materials_MP	NL, Training-M					
	511225	Training-Facility Meeting Space	Active	ES_Training-Facility Meeting Space_ES	FR_Training-Facility Meeting Space_FR	MP_Training-Facility Meeting Space_MP	NL_Training-Fa					
	511310	Traval, Passeret/VIS4	Active	PC Travel, Deconvert/VIR4 FR	FB Travel_Document/UR4_FB	MD Travel. Deserver/VIR4 MD	M. Treast-Day					

Incoterms

The Incoterms[®] are a set of individual rules issued by the International Chamber of Commerce (ICC), which define the responsibilities of sellers and buyers for the sale of goods in international transactions. Of primary importance is that each Incoterms rule clarifies the tasks, costs, and risks to be borne by buyers and sellers in these transactions. Familiarizing yourself with Incoterms will help improve smoother transaction by clearly defining who is responsible for what and each step of the transaction. Using this API, users can import their IncoTerms rule records into the InEight cloud platform. The incoterms are used in InEight Contract to define the incoterms of each PO created through InEight Contract.



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	Incoterms code	Incoterms description - EN	State -	Incoterms description - ES-MX	Incoterms description - FR-CA	Incoterms description - PT-BR	Incoterms description - NL-NL					
	CFR	Coats and freight	Active	Costos y flete	Codt et fret	MP_Costs and freight_MP	Kosten en vracht (CFR) **					
	CIF	Costs, insurance & freight	Active	Costos, seguro y flete	Colt, assurance et fret	MP_Costs, insurance & freight_MP	Kosten& verzekering en vracht (CIF)					
	CIP	Carriage and insurance paid to	Active	Transporte y seguro pagados hasta	Port payé, aasurance comprise, jusqu'à	MP_Carriage and insurance paid to_MP	Vrachtvrij incluzief verzekering tot (CIP)					
	CPT	Carriage paid to	Active	Transporte pagado hasta	Port payé jusqu'à	MP_Carriage paid to.MP	Vrachtvrij tot (CPT)					
	DAF	Delivered at frontier	Active	Entregado en la frontera	Rendu à la frontière	MP_Delivered at frontier_MP	Franco grens (DAF)					
	DAP	Delivered at Place	Active	Entregado en lugar	Rendu à l'emplacement de destination	MP_Delivered at Place_MP	Franco ter plaatse (DAP)					
	DAT	Delivered at Terminal	Active	Entregado en terminal	Rendu au terminal	MP_Delivered at Terminal_MP	Franco terminal (DAT)					
	DOP	Delivered Duty Pald	Active	Entrega con derechos pagados	Rendu droits acquittés	MP_Delivered Duty Paid_MP	Pranco inclusief rechten (DDP)					
	DOU	Delivered Duty Unpaid	Active	Entrega con derechos no pagados	Rendu droits non acquittés	MP_Delivered Duty Unpaid_MP	Franco exclusief rechten (000)					
	DEO	Delivered ex quay (duty paid)	Active	Entrega sobre muelle (derechos pagados)	Rendu à quai (droits acquittés)	MP_Delivered ex quay (duty paid)_MP	Franco of kade (DEQ)					
	DES	Delivered ex ship	Active	Entrega en buque	Hendu non déchargé	MP_Delivered ex ship_MP	Franco at schip (DES)					
	EXW	Ex Works	Active	En fábrica	Départ usine	MP_Ex Works_MP	Affabriek (EXW)					
	FAS	Free Nongside Ship	Active	Libre al costado del barco	Franco le long du navire	MP_Free Alongside Ship_MP	Vrij langszij schip (FAS)					
	FCA	Free Carrier	Active	Libre transportista	Franco transporteur	MP_Free Carrier_MP	Vrachtvrij tot vervoerder (FCA)					
	FH	Free house	Active	Libre domicilio	Franco domicile	MP_Free house_MP	Vracht tot huis					
	FOB	Free on board	Active	Libre a bordo	Franco à bord	MP_Free on board_MP	France aan boord (FOB)					
	UN	Not Free	Active	No libre	Non gratuit	MP_Not Free_MP	Niet grafis					
	201	Pick up by customer	Active	Pecogida por el diente	Cuellette par le client	MP_Pick up by customer_MP	Ophalen door klant					

Payment Terms

Payment terms, explained as the terms which dictate when a vendor must be paid, vary in policy. Other businesses offer payment terms as a perk of becoming a client. These terms could be a pay in 30 days term, a 2% discount for paying within 10 days (2/1 net 30), and other terms which allow the customer to pay later. Using this API, users can import their Payment Terms records into the InEight cloud platform. The payment terms are used in InEight Contract to define the payment terms of each PO created through InEight Contract.

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0) <u> </u>								U 🕅 Q
	Payment term co	Payment term description - EN	Due days	Progress estimate required	Billing period required	State	Payment term description - ES-N00	Payment term description - FR-CA	Payment term description - PT (
	NI 20	Net due in 120 days	120	No	No	Inactive	Neto a 120 dias	Montant net dù dans 120 jours	MP_Net due in 120 days_MP
	NT00	DO NOT USE - Payable upon receipt	0	No	No	Inactive	NO UTILICE - Pagadero a la recepción	NE PAS UTILISER - Payable à la réception	MP_DO NOT USE - Payable up:
	NT05	DO NOT USE - NET DUE IN 5 DAYS	5	No	No	Inactive	ND UTILICE - NETO A 5 DÍAS	NE PAS UTILISER - DUE NET DANS 5 JOURS	MP_DO NOT USE - NET DUE IN
	NT07	NET DUE IN 7 DAYS	7	No	No	Inactive	NETO A 7 DÍAS	MONTANT NET DÜ DANS 7 JOURS	MP_NET DUE IN 7 DAYS_MP
	NT10	DO NOT USE - Net due in 10 days	10	No	No	Inactive	NO UTILICE - NETO A 10 DÍAS	NE PAS UTILISER - due net dans 10 jours	MP_DO NOT USE - NET DUE IN
	NT15	Net due in 15 days	15	No	No	Active	Neto a 15 días	Montant net dù dans 15 jours	MP_Net due in 15 days_MP
	NT20	Net due in 20 days	20	No	No	Inactive	Neto a 20 días	Montant net d0 dans 20 jours	MP_Net due in 20 days_MP
	NT25	DO NOT USE - NET DUE IN 25 DAYS	25	No	No	Inactive	NO UTILICE - NETO A 25 DÍAS	NE PAS UTILISER - DUE NET DANS 25 JOURS	MP_DO NOT USE - NET DUE IN
	NT30	Net due in 30 days	30	No	No	Active	Neto a 30 días	Montant net dù dans 30 jours	MP_Net due in 30 days_MP
	NT45	Net due in 45 days	45	No	No	Active	Neto a 45 dias	Montant net dù dans 45 jours	MP_Net due in 45 days_MP
	NT59	Net due in 59 days	59	No	No	Inactive	Neto a 59 días	Montant net dù dans 59 jours	MP_Net due in 59 days_MP
	NT60	Net due in 60 days	60	No	No	Active	Neto a 60 días	Montant net d0 dans 60 jours	MP_Net due in 60 days_MP
	NT90	Net due in 90 days	90	No	No	Inactive	Neto a 90 días	Montant net dù dans 90 jours	MP_Net due in 90 days_MP
	P000	Pay when Paid - Immediate frm recpt of	1	Yes	Yes	Active	Pagar cuando se pague - De inmediato desde la recepción del pago del cl	Paiement sur paiement - Immédiatement à la réception du paiement du c	MP_Pay when Paid - Immediat
	P003	Pay when Paid - 3 days from recpt of Cu	3	Yes	Yes	Active	Pagar cuando se pague - 3 días desde la recepción del pago del cliente	Paiement sur paiement - 3 jours à compter de la réception du paiement d	MP_Pay when Paid - 3 days fro
	P005	Pay when Paid - 5 days from recpt of Cu	5	Yes	Yes	Active	Pagar cuando se pague - 5 días desde la recepción del pago del cliente	Palement sur palement - 6 jours à compter de la réception du palement d	MP, Pay when Paid - 5 days fro
	P006	Pay when Paid - 6 days from recpt of Cu.	6	Yes	Yes	Active	Pagar cuando se pague - 6 días desde la recepción del pago del cliente	Paiement aur paiement - 6 jours à compter de la réception du paiement d	MP_Pay when Paid - 6 days fro
	P007	Pay when Paid - 7 days from recpt of Cu	7	Yes	Yes	Active	Pagar cuando se pague - 7 días desde la recepción del pago del eliente	Palement sur palement - 7 jours à compter de la réception du palement d	MP_Pay when Paid - 7 days fro
	P008	Pay when Paid + 8 days from respt of Ou	8	Yes	Yes	Active	Pagar cuando se pague - 8 días desde la recepción del pago del cliente	Paiement sur paiement - 8 jours à compter de la réception du paiement d	MP_Pay when Paid - 8 days fro
	P010	Pay when Paid - 10 days from recot of C	10	Ves	Yes	Active	Papar cuando se paque - 10 días desde la recepción del pago del cliente	Paiement sur paiement - 10 iours à compter de la réception du paiement	MP Pay when Paid - 10 days fi

Prerequisites

The following table lists prerequisites within InEight for using the integrations in this document. These can be the presence of required supporting data or system configurations. All items in the table represent required fields within the integrations. There are many other fields within the integrations that reference data from various areas of InEight but are optional and will not prevent the addition or update of a record. These optional fields are called out within the individual integration field descriptions.

Prerequisite	Description	Required by	
Trade	Master Data referenced within integrated records	Crafts	
Crafts	Master Data referenced within integrated records	Employees	



Prerequisite	Description	Required by		
Payroll Indicators	Master Data referenced within integrated records. Must be manually created in organization Settings > Progress > Daily Planning > Others.	Union Payroll Indicators		
Unions	Master Data referenced within integrated records	Union Payroll Indicators, Crafts, Employees		
Currencies	Master Data referenced within integrated records	Employees		

Units of Measure and Currency

The Unit of Measure (UoM) and Currency master data should be defined and available in InEight. The presence of data for these entities can be verified in the Account level master data section, which can be opened by clicking on the gear box as shown below.

	ରି Master data libraries / ଏ	Jnits of measure								4°®®			
e) 1 🗄 🛛 🖉	Measurement types							تا ا	📑 🕕 C			
	Name	Description	Measurement type	Base UoM	SKF ID	Conversion factor	Measurement system	Default alternate m	СҮ				
	T	T	T	T	T	T	T		CT				
	Barrel		Unit	None	BRL	1.00000000000	Both	Barrel	Measurement type	Volume			
	Cubic Meter		Volume	Cubic Meter	M3	1.00000000000	Metric	Cubic Yard	Conversion factor	0.764554857984			
	Cubic Yard		Volume	Cubic Meter	CY	0.764554857984	English	Cubic Meter	Base UoM Measurement system	Cubic Meter English			
	CY		Volume	Cubic Meter	CY	0.764554857984	English	Cubic Meter	Default alternate measurement	Cubic Meter			
	Ea		Unit	None	EA	1.00000000000	Both	Ea	SKF ID Oth-dimensional UoM	CY			
	Each		Unit	None	EA	1.00000000000	Both	Each	System managed	No			
	Gram		Weight	Gram	G	1.00000000000	Metric	Ounce					
	Horsepower		Power	Kilowatt	HP	0.74570000000	English	Kilowatt	Created by	InEight Service Acc 08/24/2018 01:15:3 InEight Service Acc			
	Hour		Unit	None	н	1.00000000000	Both	Hour	Created on Last modified by				
	Inch Feet		Depth Length	Millimeter Meter	INF	7.74192000000	English	Millimeter Meter	Last modified on	08/24/2018 01:			
	Kiloliter		Liquid Volume	Kiloliter	KL	1.00000000000	Metric	Gal					
	Kilowatt		Power	Kilowatt	KW	1.00000000000	Metric	Horsepower					
	KIP		Weight	Gram	KIP	453,592.00000000000	English	kg					
	LF		Length	Meter	LF	0.30480000000	English	Meter					
	Liter		Liquid Volume	Kiloliter	L	0.00100000000	Metric	Gal					
	Lump Sum		Unit	None	LS	1.00000000000	Both	Lump Sum					
	m2		Area	Square Meter	M2	1.00000000000	Metric	Square Yard					
	m3		Volume	Cubic Meter	M3	1.00000000000	Metric	Cubic Yard					
	Meter		Length	Meter	м	1.00000000000	Metric	Yard					
	Millimeter Meter		Depth Length	Millimeter Meter	MMM	1.00000000000	Metric	Inch Feet					
	Ounce		Weight	Gram	oz	28.34950000000	English	Gram					
	SF		Area	Square Meter	SF	0.092903040000	English	Square Meter					
	Square Meter		Area	Square Meter	M2	1.00000000000	Metric	Square Yard					

Unit of measure master data view



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Image: Control of the second secon		Currency code	Name 1		Entity		Symbol	Canadian Dollar		
0 050 050 dar 04170 574 MERCA 9 Entry of the sector of the secto		T	r	T		T		ounduit bonu		
a a		CAD	Canadian Dollar		CANADA		s			
Arreney suburit Correney suburit Correney suburit plural Correney suburit plur		USD	US Dollar		UNITED STATES OF AMERICA		\$	Entity	CANADA	
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Created on 08/24/2016 11:64. Liait modified by 16/09/2021 05:44 2.								Currency plural		
								Created on Last modified by	08/24/2018 01:16:5 InEight Service Acc	
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Currency master data view

Payroll Indicators

Payroll indicators are defined in Master data libraries > **Payroll indicators** and associated with employees in Project Settings > Assigned payroll indicators.



Trades

Direction		To InEight				
Frequency		Determined by external system.				
Trigger Methods		etermined by external system.				
Average Pay	/load Size	Possibly hundreds of records to allow for all types of work supported by a customer.				
APIM Name	•	Upsert Trades				
InEight	Starting Version	18.2				
Application	Ending Version					

Fields

Depth	Name	Туре	Precision ¹	Parent	Req.
1	Trade Display ²	String	50		Yes
1	TradeDescription	String	255		No
1	IsActive	Boolean	NA		No
1	SourceSystemId	String	50		No
1	SourceSystemName	String	50		No

2 - Natural Key field.

Field Descriptions

Name	Description	Example
Trade Display	A code (usually 2 or 6 characters) that represents or describes the Trade of an employee. Trade Display shows as the Trade Id field in the UI. This value must be a unique to a Trade.	AD
TradeDescription	Customer-defined field that is typically used to describe or provide details about the Trade.	Craft Administration
IsActive	Determines if the record is active and available to the system. If a value is not provided, the value <i>true</i> is used. Sending a value of <i>false</i> causes a soft delete of the record in InEight.	True
SourceSystemId	The identification of the employee trade used within the external system. In most cases, this matches the TradeDisplay field. This field is used by InEight to match employee records to other entities (e.g., Project Employee) where an employee is cross-referenced.	AD



Name	Description	Example
SourceSystemName	Unique name assigned to the system of record by the InEight cloud platform that matches the external system using the integration.	CLNTERPSOU

Error Messages

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

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

API/Entity Logic	Condition	Code	Message
API Validation	Valid Payload	202	
API Validation	Required Fields are not Provided. [Field Name] options are: • TradeDisplay • TradeDescription	400	The request is invalid. The [Field Name] Field is required.
API Validation	Payload exceeds String Length Size. [Field Name] options are: TradeDisplay TradeDescription SourceSystemId SourceSystemName	400	The request is invalid. The field [Field Name] must be a string with a maximum length of [String Length]. Message: The request is invalid.
API Validation	Payload data is Empty	400	Payload was missing or invalid and was not parsed.
Entity Logic Validation	Payload has more than one record with same SourceSystemId	200	Duplicate SourceSystemId {Comma separated list of SourceSystemIds} found. Aborting the process.
Entity Logic Validation	User does not have Add, Edit and Delete Permission	200	Ignoring the processing of the Trade with the Id {TradeId} due to absence of permissions: Add, Edit & Delete
Entity Logic Validation	Payload has more than one record with same Displayld	200	Duplicate DisplayId {Comma separated list of DisplayIds} found. Aborting the process.
Entity Logic Validation	Payload has conflict with uniqueness on SourceSystemId or DisplayId with existing data	200	lgnoring Trade having display'{TradeDisplay}'as it is having duplicate SourceSystemId or DisplayId
Entity Logic Validation	Payload has inactive records while inserting	200	Ignoring inactive Trade '{TradeDisplay}' for adding



Entity Logic Validation	Deleting a Trade when it is associated with at-least one Craft.	200	Unable to delete Trade: '{TradeDisplay}', You must remove all associated crafts from this trade before it can be deleted
Entity Logic Validation	Valid Payload	200	{ Logs: [] }

Sample JSON

```
"TradeDisplay": "AD",
"TradeDescription": "Craft Administration",
"IsActive": true,
"SourceSystemId": "AD",
"SourceSystemName": "CLNTERPSOU"
}
```

Verification

Import trades into InEight using the API Upsert Trades. The results can be validated from the Operational resources section in the InEight cloud platform. Refer below screenshot.

Dpe	rational resources					() 🖻 🛞 🤇
	EMPLOYEES EQUIPMENT	MATERIALS				Searc	h Q
	Trade ID	Description	Created by	Created on	Last modified by	$\overline{\tau}$	Last modified on
	C <u>ZZ324</u>	Non-Employee General	Service Account	01/26/2017 10:18:27 P	yamuna jayarama		02/14/2018 1:14:36 PM
	D YJ_TR_Feb_06_10		Service Account	02/06/2018 6:49:46 PM	Service Account		02/06/2018 6:49:46 PM
	D YJ_TR_Feb_06_09	YJ_TR_Feb_06_09	Service Account	02/06/2018 5:55:38 PM	Service Account		02/06/2018 5:55:38 PM
	D YJ_TR_Feb_06_08	YJ_TR_Feb_06_08	Service Account	02/06/2018 5:54:16 PM	Service Account		02/06/2018 5:54:16 PM
0	C YJ_TR_Feb_06_07		Service Account	02/06/2018 5:52:39 PM	Service Account		02/06/2018 5:52:39 PM
	C YJ_TR_Feb_06_0578	YJ_TR_Feb_06_05desc	Service Account	02/06/2018 5:51:08 PM	yamuna jayarama		02/14/2018 1:15:28 PM
	C YJ_TR_Feb_06_04	desc	Service Account	02/06/2018 10:52:00 A	Service Account		02/06/2018 10:55:32 A
	1 YJ_TR_Feb_06_02	YJ_TR_Feb_06_02desc1	Service Account	02/06/2018 10:49:33 A	Service Account		02/06/2018 10:55:32 A
0	D YJ_TR_Feb_06_01	desc	Service Account	02/06/2018 10:48:34 A	Service Account		02/06/2018 10:55:32 A
	JJTR_Feb_06_00desc	YJ_TR_Feb_06_00desc1	Service Account	02/06/2018 10:45:51 A	Service Account		02/06/2018 10:55:32 A
	С	Warehouse/Yard	Service Account	01/26/2017 10:18:27 P	Service Account		01/26/2017 10:18:27 P
	C Welder	Welder	Service Account	02/10/2018 3:44:43 AM	Service Account		02/12/2018 11:54:52 P
۵	C Unknown	Unknown	Service Account	12/15/2017 2:43:20 AM	Service Account		12/15/2017 2:43:20 AM
1	רייים וויידים trade	Tand Daires Tanata	·····	10/01/00177 50 56 514	o		10/01/00177 50 55 50

Operational resources (Trade) view in resource library



Crafts

Direction		To InEight
Frequency		Determined by external system.
Trigger Methods		Determined by external system.
Average Pay	load Size	Possibly hundreds of records to allow for all types of work supported by a customer.
APIM Name		Upsert Crafts
InEight Starting Version		18.2
Application	Ending Version	

Fields

Depth	Name	Туре	Precision ¹	Parent	Req.
1	Craftld ²	String	50		Yes
1	CraftDescription	String	255		No
1	TradeId	String	50		Yes
1	CurrencyCode	String	50		Yes
1	VendorCode	String	250		No
1	SourceSystemId	String	50		No
1	SourceSystemName	String	50		No
1	UnionSourceSystemId	String	50		No
1	UoMName	String	50		Yes
1	UseBaseWageFactors	Boolean	NA		No
1	StraightTimeRate	Number	16,5		No
1	OverTimeFactor	Number	16,5		No
1	OverTimeRate	Number	16,5		No
1	DoubleTimeFactor	Number	16,5		No
1	DoubleTimeRate	Number	16,5		No
1	IsActive	Boolean	NA		No

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

2 - Natural Key field.



Field Descriptions

Name	Description	Example
Craftld	Unique, informal name of the Craft that is shown in the UI.	SA1S2
CraftDescription	CraftDescription Customer defined field that can be used to indicate the skill level and proficiency of the employee with associated craft.	
TradeId	Code that represents or describes the trade of an employee associated with the Craft, typically 2 to 6 characters. Must match a valid Trade SourceSystemId.	AD
CurrencyCode	Identifies the currency type associated with the craft used to determine the standard rate of the craft. The value provided here must match a valid CurrencyCode in InEight master data.	USD
VendorCode	Identifies a vendor that exists in InEight. Crafts with a vendor code are managed by the associated vendor and availability is limited to that vendor. Must match a valid Vendor SourceSystemId.	00000001028
SourceSystemId	Identification of the employee craft used within the external system. In most cases, this matches the CraftId field. This field is used to match employee records to other entities (<i>e.g.</i> , Project Employee) where an employee is cross-referenced.	47PP
SourceSystemName	Unique name assigned to the system of record by the InEight cloud platform that matches the external system using the integration.	CLNTERPSOU
UnionSourceSystemId	An optional association of the craft to a specific union. The value sent in this field must match a valid Union in master data.	ILW
UoMName	Name or SourceSystemId of an existing Unit of Measure record that should be used for resources assigned to the craft.	HR
UseBaseWageFactors	Flag that determines whether to use the absolute values or the factors for pay rates.	False
StraightTimeRate	Rate for standard pay that should be applied for this craft within the assigned project.	35.00
OverTimeFactor	Factor used to multiply the standard rate of the employee to determine their overtime rate.	1.5
OverTimeRate (Straight time X Overtime Factor = Overtime)		35.00
DoubleTimeFactor	Factor used to multiply the standard rate of the employee to determine their Double time rate.	2
DoubleTimeRate	Exact calculated rate paid to the employee for double time work as per applicable laws. (Straight time X Double Time Factor = Double time)	35.00



Name	Description	Example
IsActive	Determines if the record is active and available to the system. If a value is not provided, the value <i>true</i> is used. Sending a value of <i>false</i> will cause a soft delete of the record in InEight.	True

Error Messages

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

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

API/Entity Logic	Condition	Code	Message
API Validation	Valid Payload	202	
API Validation	Required Fields are not Provided. [Field Name] options are: • Craftld • Tradeld • CurrencyCode • UoMName	400	The request is invalid. The [Field Name] Field is required.
API Validation	Payload exceeds String Length Size. [Field Name] options are: CraftId CraftDescription TradeId CurrencyCode VendorCode SourceSystemId SourceSystemName UnionSourceSystemId UOMName	400	The request is invalid. The field [Field Name] must be a string with a maximum length of [String Length].
API Validation	Payload data is empty	400	Payload was missing or invalid and was not parsed.
Entity Logic Validation	Payload has more than one record with same SourceSystemId/ CraftId	200	Duplicate SourceSystemId/DisplayId {Comma separated list} found. Aborting the process.
Entity Logic Validation	Payload has conflict with uniqueness on SourceSystemId or CraftId with existing data	200	lgnoring Craft '{CraftId}' as it is having duplicate SourceSystemId or DisplayId
Entity Logic Validation	Tradeld does not exist in the database	200	lgnoring Craft '{CraftId}' as it is having invalid TradeId {TradeSourceSystemId}
Entity Logic Validation	CurrencyCode does not exists in the database	200	lgnoring Craft '{CraftId}' as it is having invalid {CurrencyCode}



API/Entity Logic	Condition	Code	Message
Entity Logic Validation	UOMName does not exists in the database	200	lgnoring Craft '{CraftId}' as it is having invalid {UOMName}
Entity Logic Validation	VendorSourceSystemId does not exists in the database	200	lgnoring Craft '{CraftId}' as it is having invalid {VendorSourceSystemId}
Entity Logic Validation	UnionSourceSystemId does not exists in the database	200	lgnoring Craft '{CraftId}' as it is having invalid {UnionSourceSystemId}
Entity Logic Validation	Payload has inactive records while inserting.	200	Ignoring inactive Craft '{CraftId}' for adding
Entity Logic Validation	Deleting a craft with employees or if it is associated to at-least one project.	200	Ignoring Craft '{CraftId}' for deleting as it is associated with employees and projects. So, You must remove all associated projects and employees from this craft before it can be deleted.
Entity Logic Validation	Changing the craft's vendor when the craft is associated to at least one project.	200	Ignoring Craft '{CraftId}' for updating because Vendor cannot be changed when an employee in this craft is assigned to at least one project.
Entity Logic Validation	Changing the craft's vendor when craft has employees.	200	Ignoring Craft '{CraftId}' for updating because Vendor cannot be changed if craft has employees.
Entity Logic Validation	Changing craft's currency when it has employees assigned to at-least one project.	200	Ignoring Craft '{CraftId}' for updating because Currency cannot be changed when an employee in this craft is assigned to at least one project.
Entity Logic Validation	StraightTimeRate is null and OverTimeFactor / DoubleTimeFactor / OverTimeRate / DoubleTimeRate are not null	200	lgnoring Craft '{Craftld}' because ST rate is not passed.
Entity Logic Validation	Any of the TimeFactor or TimeRate is a negative value.	200	Ignoring Craft '{CraftId}' because Rates/Factors should not accept -ve value.
Entity Logic Validation	Valid Payload	200	{ Logs: [] }



Sample JSON

```
[
 {
 "CraftId": "Craft Jan 22 07",
 "CraftDescription": "12345678",
 "TradeId": "00 SSID",
 "CurrencyCode": "USD",
 "VendorCode": "0000001028",
 "SourceSystemId": "Craft Jan 22 07",
 "SourceSystemName": "CLNTERPSSN",
 "UnionSourceSystemId": "SSId47",
 "UoMName": "Acre",
 "UseBaseWageFactors": false,
 "StraightTimeRate": 35.00,
"OverTimeFactor": 1,
"OverTimeRate": 35.00,
 "DoubleTimeFactor": 1,
 "DoubleTimeRate": 35.00,
 "IsActive": true
```

Verification

Import all the crafts and associate them to their respective trades in the InEight cloud platform using the Upsert Crafts API.

EIMENU Operational resources			Library					+		8
	JIPMENT	MATERIALS						Search	0	~
Trade		Craft ID	Description	UoM =	Created by	Created	Currency =	DT factor =	DT rate	-
PK test 4 - PK desc 4	•	1.C.01.1.01	GF - Laborer General Foreman	Hour	Service Ac	01/15/201	USD - US			
🗅 PK test - PK test		1.C.01.1.02	FM - Laborer Foreman	Hour	Service Ac	01/15/201	USD - US			
		1.C.01.1.02.3.17	Laborer Foreman	Hour	Service Ac	12/15/201	USD - US			
🗅 Unknown - Unknown		1.C.01.1.02.3.17.3.17.2	Laborer Foreman	Hour	Service Ac	12/15/201	USD - US			
🕒 1.C.01.Laborer - 1.C.01.Laborer		1.C.01.1.02.3.17435	Laborer Foreman	Hour	yamuna ja	01/15/201	USD - US			
🗅 1.C.01.Teamster - 1.C.01.Teamster		1.C.01.1.02.3.28	Laborer Foreman	Hour	Service Ac	12/15/201	USD - US			
1.C.01.Operator - 1.C.01.Operator		1.C.01.1.03	LT - Skilled Laborer (Journeyman)	Hour	Service Ac	01/15/201	USD - US			
🗅 1.C.03.Concrete Carpenter - 1.C.0		1.C.01.1.03.3.17	Laborer Group IV-V	Hour	Service Ac	12/15/201	USD - US			
1.C.05.Ironworker - 1.C.05.Ironwo		1.C.01.1.03.3.17.3.17.2	Laborer Group IV-V	Hour	Service Ac	12/15/201	USD - US			
1.C.06.Carpenter - 1.C.06.Carpenter		1.C.01.1.03.3.28	Laborer Group IV-V	Hour	Service Ac	12/15/201	USD - US			
1.C.52.Mechanic - 1.C.52.Mechanic		1.C.01.1.04	JN - Skilled Laborer No Dues (Journey	Hour	Service Ac	01/15/201	USD - US			
C Automation - Automation										
T01_Trade-02 - T01_Trade-02 desc		<u>1.C.01.1.04.3.17</u>	Laborer Group I-III	Hour	Service Ac	12/15/201	USD - US			
Laborer - Laborer	_	<u>1.C.01.1.04.3.17.3.17.2</u>	Laborer Group I-III	Hour	Service Ac	12/15/201	USD - US			•
Add trade	⊕ Add	d craft								

Operational resources (Craft) view in resource library



Vendors

Direction		To InEight cloud platform from external system.
Frequency		Determined by external system.
Trigger Methods		Determined by external system.
Average Pay	vload Size	Determined by external system.
APIM Name	•	Upsert Vendors
InEight	Starting Version	18.2
Application	Ending Version	

Direction		From InEight cloud platform to external system.
Frequency		Determined by external system.
Trigger Methods		Determined by external system.
Average Pay	/load Size	Determined by external system.
APIM Name	9	List Vendors
InEight Starting Version		19.9
Application	Ending Version	

Fields

Depth	Name	Туре	Precision	Parent	Req.
1	SourceSystemId	String	250		No
1	SourceSystemName	String	50		No
1	VendorCode	String	250		Yes
1	VendorDescription	String	250		Yes
1	IsActive	Boolean	NA		No
1	AlternateName	String	250		No
1	Address1	String	250		No
1	Address2	String	250		No
1	ZipCode	String	50		No
1	City	String	100		No



Depth	Name	Туре	Precision	Parent	Req.
1	RegionISOCode	String	10		No
1	CountryISOCode	String	10		No
1	TelephoneNumber	String	50		No
1	FaxNumber	String	50		No
1	PaymentTermsSourceSystemId	String	250		No
1	INCOTermsSourceSystemId	String	250		No
1	DefaultINCOTermsLocation	String	50		No
1	VendorTypeReference	String	50		No
1	DefaultCurrencyCode	String	50		No
1	PreferredLanguage	String	5		No
1	VendorTaxJurisdiction	String	60		No
1	Status	String	50		No
1	VendorTaxId	String	60		No
1	VendorAddresses	String	Array		
2	VendorAddressType	String	50	VendorAddresses	
2	Address1	String	250	VendorAddresses	
2	Address2	String	250	VendorAddresses	
2	Zipcode	String	50	VendorAddresses	
2	City	String	100	VendorAddresses	
2	RegionISOCode	String	10	VendorAddresses	
2	CountryISOCode	String	10	VendorAddresses	
2	TelephoneNumber	String	50	VendorAddresses	
2	FaxNumber	String	50	VendorAddresses	

Field Descriptions

Name	Name Description	
SourceSystemId	Identifier created by the system of record and used in all system communications as the primary method of specifying a unique record. This field does not display in normal use of InEight applications and can contain internal identifiers such as a GUID that is not understandable by typical system users.	
SourceSystemName	Unique name assigned to the system of record by the InEight cloud platform that matches the external system using the integration.	D365



Name	Description	Example
VendorCode	Unique code that shows as the Vendor ID in the UI.	0010079210
VendorDescription	User friendly description of the record that will be shown in normal use of InEight applications to assist users when performing searches or selections. This field supports a large number of text characters, but it is recommended to keep the description as short as possible while retaining an easily recognized meaning.	My Test Vendor
IsActive	Determines if the record is active and available to the system. If a value is not provided, the value <i>true</i> is used. Sending a value of <i>false</i> causes a soft delete of the record in InEight.	true
AlternateName	An alternate name that can be assigned to the vendor to aid searches.	Mitchell, Schmidt, & Hopkins
Address1	Street address of the vendor.	123 S. South Street
Address2	An optional second line for the street address of the vendor.	Suite 123
ZipCode	Postal or zip code of the vendor.	90210
City	City where the vendor is located.	Los Angeles
RegionISOCode	ISO 3166-2 Code for the region of the vendor.	US-CA
CountryISOCode	ISO Alpha-2 code for the country of the vendor.	US
TelephoneNumber	Telephone number for the vendor.	555-555-1212
FaxNumber	Fax number for the vendor	555-555-1212
PaymentTermsSourceSystemId If used, data provided in this field will be validated against the Master Data Payment terms values.		NET15
INCOTermsSourceSystemId	Optional International Commercial (INCO) Terms that will be defaulted when the vendor is added to a contract. If used, data provided in this field will be validated against Master Data Incoterms values.	FCA
DefaultINCOTermsLocation	Optional location that risk passes from seller to buyer per the specified INCO Terms	Place of Delivery
VendorTypeReference	VendorTypeReference Optional reference to a Vendor Type. If used, data VendorTypeReference Vendor Type master data located in Platform.	
DefaultCurrencyCode	Not used. Reserved for future functionality.	Not applicable
PreferredLanguage	Not used. Reserved for future functionality.	Not applicable
An optional Tax Jurisdiction Code that can be included when sending Invoice and Pay Requests from Contracts to an external system. This field can also be optionally used to		250221105



Name	Description	Example
Status	Status of the vendor, either available or unavailable.	Available
VendorTaxld	Optional Tax Identification number issued for the vendor from a government tax authority (typically IRS for US Vendors) The value for this field must be unique per Vendor – Each Vendor must have their own Tax ID.	00-101010101
VendorAddresses	Array header for additional vendor address locations.	
VendorAddressType	Indicates the type of address for the vendor, which can be PRIMARY, REMIT TO, or ADDITIONAL.	PRIMARY
Address1	Street address of the vendor.	123 Cedar Street
Address2	An optional second line for the street address of the vendor.	Suite 200
Zipcode	Postal or zip code of the vendor.	06405
City	City where the vendor is located.	Branford
RegionISOCode	ISO 3166-2 Code for the region of the vendor.	US-CT
CountryISOCode	ISO Alpha-2 code for the country of the vendor.	US
TelephoneNumber	Telephone number for the vendor.	999-99-9999
FaxNumber	Fax number for the vendor	999-99-9999

Error Messages

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

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

API/Entity Logic	Condition	Code	Message
API Validation	Valid Payload	202	
API Validation	Required Fields are not Provided. [Field Name] options are: • VendorCode • VendorDescription	400	The request is invalid. The [Field Name] Field is required.



API/Entity Logic	Condition	Code	Message	
API Validation	Payload exceeds String Length Size. [Field Name] options are: SourceSystemId SourceSystemName VendorCode VendorDescription AlternateName Address1 Address2 ZipCode City RegionISOCode CountryISOCode TelephoneNumber FaxNumber DefaultPaymentTerms DefaultPaymentTerms DefaultINCOTermsLocation VendorTypeReference VendorTaxJurisdiction		The request is invalid. The field [Field Name] must be a string with a maximum length of [String Length]. Message: The request is invalid.	
API Validation	Payload data is Empty		Payload was missing or invalid and was not parsed.	
Entity Logic Validation	Payload has more than one record with same SourceSystemId		Duplicate SourceSystemId {Comma separate list of SourceSystemIds} found. Aborting the process.	
Entity Logic Validation	User does not have Add, Edit and Delete Permission		Ignoring the processing of the Vendor with the Id {VendorId} due to absence of permissions: Add, Edit & Delete	
Entity Logic Validation	Payload has more than one record with same Displayld	200	Duplicate DisplayId {Comma separated list of DisplayIds} found. Aborting the process.	
Entity Logic Validation	Payload has inactive records while inserting	200	Ignoring inactive Vendor '{VendorCode}' for adding	
Entity Logic Validation	Payload Data has invalid Language	200	Ignoring Vendor'{VendorCode}' as it is having invalid PreferredLanguage '{LanguageId}'	
Entity Logic Validation	Payload Data has invalid Currency		Ignoring Vendor'{VendorCode}' as it is having invalid DefaultCurrencyCode'{CurrencyCode}'	
Entity Logic Validation	Payload Data has invalid VendorType		Ignoring Vendor'{VendorCode}' as it is having invalid VendorTypeReference '{VendorTypeName}'	
Entity Logic Validation	Payload Data has invalid CountryISOCode		Ignoring Vendor '{VendorCode}' as it is having invalid CountryISOCode '{CountryISOCode}'	
Entity Logic Validation	Payload Data has invalid RegionISOCode		Ignoring Vendor'{VendorCode}' as it is having invalid RegionISOCode '{RegionISOCode}'	
Entity Logic Validation	Payload Data has VendorTaxId that is already used for another Vendor	200	Ignoring Vendor'{VendorCode}' as it is having duplicate VendorTaxId '{VendorTaxId}'	



API/Entity Logic	Condition	Code	Message
Entity Logic Validation	Payload Data has invalid VendorAddressType	200	Ignoring Vendor '{VendorCode}' as it is having Invalid VendorAddressType '{VendorAddressType}'
Entity Logic Validation	Payload Data has invalid Vendor Status	200	Ignoring Vendor'{VendorCode}' as it is having invalid Status '{VendorStatusName}'
Entity Logic Validation	Payload Data has invalid PaymentTerm	200	Ignoring Vendor'{VendorCode}' as it is having invalid PaymentTerm '{PaymentTermSourceSystemId}'
Entity Logic Validation	Payload Data has invalid PaymentTerm	200	Ignoring Vendor '{VendorCode}' as it is having invalid PaymentTerm '{PaymentTermSourceSystemId}'
Entity Logic Validation	Payload Data has invalid IncoTerm	200	lgnoring Vendor '{VendorCode}' as it is having invalid IncoTerm '{IncoTermSourceSystemId}'
Entity Logic Validation	Deleting vendor that is associated in at- least one entity	200	Ignoring vendor '{VendorCode}' for deleting because it may be associated with projects, users, contacts, crafts, model-types, pieces of equipment and employees. So, you must remove all vendor associations before it can be deleted.
Entity Logic Validation	Valid Payload	200	{ Logs: [] }

Sample JSON

```
{
"SourceSystemId": "23977438",
"SourceSystemName": "D365",
"VendorCode": "23977438",
"VendorDescription": "Fake Subcontractor, LLC",
"IsActive": true,
"AlternateName": "FSL",
"Address1": "123 S. A Street",
"Address2": "Suite 123",
"ZipCode": "85250",
"City": "Scottsdale",
"RegionISOCode": "US-AZ",
"CountryISOCode": "US",
"TelephoneNumber": "555-555-5555",
"FaxNumber": "555-555-5556",
"DefaultPaymentTermsSourceSystemId": "NET30",
"DefaultINCOTermsSourceSystemId": "FOB",
"DefaultINCOTermsLocation": "Port of Shipment",
"VendorTypeReference": "Z001",
"DefaultCurrencyCode": "USD",
"PreferredLanguage": "ENG",
"VendorTaxJurisdiction": "25002303",
"Status": "Available",
"VendorTaxId": "00-01101010",
"VendorAddresses": [
```



	{
	"VendorAddressType": "PRIMARY",
	"Address1": "123 Cedar Street",
	"Address2": "Suite 200",
	"ZipCode": "06405",
	"City": " Branford",
	"RegionISOCode": "US-CT",
	"CountryISOCode": "US",
	"TelephoneNumber": "999-99-9999",
	"FaxNumber": "999-99-9999"
}	

Verification

Import the vendor list into InEight cloud platform using API Upsert Vendors, or manually create Vendors in the Resource Library UI.

Ven	dors						0
	10	Name	Alternate name	Туре	Country / Region	0940460 BC Ltd	
0	0010042850	0798750 BC Ltd	Automatic Institut	2001 - LIEF Vendor	Canada	10	0010064986
0	0010013737	0826487 BC LTD	Jon Pinkerton	2001 - LIDF Vendor	Canada	Alternate name Type	Cotto Catering Com. 2001 - LIEF Vendor
Ξ.	0010037173	0838152 BC Ltd	Big Dog Construction	2001 - LIEF Vendor	Canada	Vendor tax ID	
8	0010039743	0915924 BC Ltd		2001 - LIEF Vendor	Canada	Vendor tax jurisdiction	
8	0010045906	0940013 BC LTD	08A Fixed Up Welding LTD	2001 - LIEF Vendor	Canada	Default currency	Canadian Dollar
e.	0010064966	0940460 BC Ltd	Cotto Catering Company	2001 - LIEF Vendor	Canada	Default payment terms. Default incoterms.	NT30 FOB
a i	0010036092	0948387 BC L13		2001 - LIDF Vendor	Canada	Default incoterms location	Destination
0	0010032794	0949684 BC LTD		2001 - LIEF Vendor	Canada	Country / Region	Canada
0.	0010071540	0955821 B.C. Ltd	You Move Me	2001 - LIEF Vendor	Canada	Address 1	6011 Hastings St
8	0010037266	1 800 Got Junk		2001 - LIEF Vendor	Canada	Address 2 City	Burneby
1	0010036060	1 Call Building Maintenance C.		Z001 - LIDF Vendor	United States Of America	State	British Columbia
а.	0010020407	1 Industrial Source LLC	Tammie Cook	2001 - LIEF Vendor	United States Of America	Postal / Zip code Phone number Fax number	V58 189
а.	0010036090	1 Priority Environmental Servi.		2001 - LIEF Vendor	United States Of America		604-298-8646 778-994-7353
8	0010071455	1 Town View LLC	DBA Vista Point Apartments	2001 - LIDF Vendor	United States Of America		

Vendors view in resource library



Unions

Direction		To InEight	
Frequency		Determined by external system.	
Trigger Met	hods	Determined by external system.	
Average Pay	/load Size	Potentially 100s of records	
APIM Name		Upsert Unions	
InEight Starting Version		18.2	
Application	Ending Version		

Fields

Depth	Name	Туре	Precision	Parent	Req.
1	UnionDisplayId	String	50		Yes
1	UnionDescription	String	250		Yes
1	IsActive	Boolean	NA		No
1	SourceSystemId ¹	String	50		Yes
1	SourceSystemName	String	50		Yes

1 - Natural Key field.

Field Descriptions

Name	Description	Example
Union DisplayId	Unique identifier that is publicly recognizable. This field shows in normal use of InEight applications as the Union ID field in the UI. The value sent in this field can match SourceSystemId if there is no need to use a public vs private unique identifier.	IWL21
UnionDescription	User friendly description of the record that will be shown in normal use of InEight applications to assist users when performing searches or selections. This field supports a large number of text characters, but it is recommended to keep the description as short as possible while retaining an easily recognized meaning.	Iron Workers Local 21
IsActive	Determines if the record is active and available to the system. If a value is not provided, the value <i>true</i> is used	



Name	Description	Example
SourceSystemId	Identifier created by the "system of record" and used in all system communications as the primary method of specifying a unique record. This field does not display in normal use of InEight applications and can contain internal identifiers such as a GUID that is not understandable by typical system users.	
SourceSystemName	Unique name assigned to the system of record by the InEight cloud platform that matches the external system using the integration.	JDE

Error Messages

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

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

API/Entity Logic	Condition	Code	Message
API Validation	Valid Payload	202	
API Validation	Required Fields are not Provided. [Field Name] options are: • UnionDisplayId • UnionDescription	400	The request is invalid. The [Field Name] Field is required.
API Validation	Payload exceeds String Length Size. [Field Name] options are: UnionDisplayId UnionDescription SourceSystemId SourceSystemName	400	The request is invalid. The field [Field Name] must be a string with a maximum length of [String Length]. Message: The request is invalid.
Entity Logic Validation	Payload has more than one record with same SourceSystemId / DisplayId	200	"Duplicate DisplayId/SourceSystemId found. Aborting the process."
Entity Logic Validation	Duplicate source systemId/DisplayId is found in the db.	200	"Duplicate found in SourceSystemId or DisplayId for '{Display}'"
Entity Logic Validation	Payload has inactive Union	200	"Ignoring inactive Union having DisplayId '{DisplayId}' for adding"
Entity Logic Validation	Payload has Dependency	200	"Ignoring Union having SourceSystemId '{DisplayId}' for deleting due to its dependencies"



API/Entity Logic	Condition	Code	Message
Entity Logic Validation	Payload Data has Invalid Union	200	"Ignoring invalid Union having DisplayId '{DisplayId}' for update"
Entity Logic Validation	Valid Payload	200	"Imported {resultsCount} of {itemsCount} Union entities: Adds({addsCount}) Updates({updatesCount}) Deletes({deletesCount}) Errors(0) Skipped({itemsCount - resultsCount})"

Sample JSON

```
[
 {
"UnionDisplayId": "OUFLD",
"UnionDescription": "UnionDesc",
 "IsActive": true,
 "SourceSystemId": "OUFLD",
 "SourceSystemName": "JDE"
 },
 {
 "UnionDisplayId": "7208BC",
 "UnionDescription": "UnionDesc1",
 "IsActive": true,
"SourceSystemId": "7208BC",
 "SourceSystemName": "JDE"
 }
1
```

Verification

Results can be viewed in the Unions screen under the menu item 'Master data libraries' > 'Unions'.

۲	Master data libraries	✓ Unions ✓		ৡ	
€			()	Q	
	10 † 👳	Description			
	IW118	Iron Workers #118 Sacramento			^
	IW155	Iron Workers #155 Fresno			
	IW229	Iron Workers #229 San Diego			
	IW377	Iron Workers #377 San Francisco			
	IW416	Iron Workers #416 Los Angeles			
	rW433	Iron Workers #433 Los Angeles			
_					
0 20	19 InEight Inc. Privacy and Terms	v 19.7. j. PJTu	INE	, IGHT	r V



Union Payroll Indicators

Direction		To InEight		
Frequency		Determined by external system.		
Trigger Methods		Determined by external system.		
Average Payload Size		Tens of records on upsert/import. Changes will be very infrequent.		
APIM Name		Upsert UnionPayrollIndicators		
InEight	Starting Version	18.2		
Application	Ending Version			

Fields

Depth	Name	Туре	Precision	Parent	Required
1	UnionCode	String	50		See NOTE
1	EmployeeId	String	50		See NOTE
1	PayrollIdentifier ¹	String	50		Yes
1	StartDate ²	String	34		Yes
1	EndDate ²	String	34		Yes

1 - Natural Key field.

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

NOTE: Either UnionCode or EmployeeId is required in the data payload, however, including both at the same time for any individual record is not required.

Field Descriptions

Name	Description	Example
UnionCode	Unique identifier created by the external system of the Union to which the Payroll Indictor is being associated. Must match a valid Union SourceSystemId.	006
EmployeeId	Providing a unique employee identifier in this field will restrict the Payroll indicator to only this employee and any other employees explicitly sent in the integration as separate records with the same Payroll Indicator and Union Code. Must match a valid Employee SourceSystemId.	00165836
PayrollIdentifier	Value sent in this field must match one of the defined Attendance type or Extra pay (Allowances) records in the Progress application.	1621



Name	Description	Example
StartDate	Date that the association becomes valid and can be used within InEight Plan.	2017-12- 27T05:12:35.6081608Z
EndDate	Date that the association becomes invalid and can no longer be selected within InEight Plan.	2017-12- 30T05:12:35.6081608Z

Error Messages

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

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

API/Entity Logic	Condition	Code	Message
API Validation		202	Successfully saved valid UnionPayrollIndicators.
API Validation	UnionCode is either not present or have an invalid value in a record.	200	Following UnionCodes: {comma separated list of unioncodes} does not exist in the Application.
API Validation	PayrollIdentifier is either not present or have an invalid value in a record.	200	Following PayrollIndicatorCodes:{comma separated list of PayrollIdentifiers} does not exist in the Application.
API Validation	Employeeld is either not present or have an invalid value in a record.	200	Following Employees:{comma separated list of EmployeeIds} does not exist in the Application.

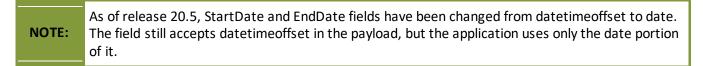
Sample JSON

```
[
{
    "UnionCode": "006",
    "EmployeeId": "00165836",
    "PayrollIdentifier": "1621",
    "StartDate": "2017-12-27T05:12:35.6081608Z",
    "EndDate": "2017-12-30T05:12:35.6081608Z"
},
{
    "UnionCode": "bulk1",
    "EmployeeId": "00210108",
    "PayrollIdentifier": "5005",
    "StartDate": "2017-12-27T05:12:35.6081608Z",
    "EndDate": "2017-12-30T05:12:35.6081608Z"
},
{
    "UnionCode": "SSId2",
    "UnionCode": "SSId2",
    "EmployeeId": "00301410",
```



Master Data – Employees Integration Specification

```
"PayrollIdentifier": "4110",
"StartDate": "2017-12-27T05:12:35.6081608Z",
"EndDate": "2017-12-30T05:12:35.6081608Z"
```





Employees (Post)

Direction		To InEight				
Frequency		Determined by external system.				
Trigger Met	hods	etermined by external system.				
Average Payload Size		Entire entity – Thousands of records. Updates to records can occur on a daily basis and can affect multiple records.				
APIM Name	9	Upsert Employees				
Annliestion	Starting Version	18.2				
	Ending Version					

Fields

Depth	Name	Туре	Precision ¹	Parent	Req.
1	Craftld	String	50		Yes
1	VendorCode	String	250		No
1	EmployeeId ²	String	50		Yes
1	FirstName	String	100		Yes
1	LastName	String	100		Yes
1	IsActive	Boolean	NA		No
1	EmployeePIN	String	64		No
1	CanReportTime	Boolean	NA		Yes
1	SourceSystemId	String	50		No
1	SourceSystemName	String	50		No
1	StartDate ³	String	34		No
1	EndDate ³	String	34		No
1	CurrencyCode	String	50		Yes
1	UoMName	String	50		Yes
1	StraightTimeRate	Number	16,5		No
1	OverTimeFactor	Number	16,5		No
1	OverTimeRate	Number	16,5		No
1	DoubleTimeFactor	Number	16,5		No
1	DoubleTimeRate	Number	16,5		No
1	UseBaseWageFactors	Boolean	NA		No

Master Data - Employees Integration Specification



Depth	Name	Туре	Precision ¹	Parent	Req.
1	UnionSourceSystemId	String	50		No
1	PrimaryCompany	String	100		No
1	JobTitle	String	100		No
1	UnionJobTitle	String	100		No
1	SupervisorId	String	200		No
1	CountryISOCode	String	10		No
1	DefaultCostCenterSourceSystemId	String	50		No
1	AdditionalPayrollInstructionCode	String	100		No
1	IsOverrideAdditionalPayrollInstructionCodeAllowed	Boolean	NA		No
1	Is Available Weekly Timesheet	Boolean	NA		No

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

2 - Natural Key field.

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

Field Descriptions

Name	Description	Example
CraftId	Identifies the craft of the employee. The value in this field must match a valid public identifier for a craft from the Crafts Integration or values manually entered in InEight.	STST
VendorCode	Identifies a vendor that exists in InEight. Employees with a VendorCode are managed by the associated vendor and their availability is limited to that vendor.	BASE
EmployeeId	Public unique Identification of the employee within InEight.	00001613
FirstName	First name of the employee.	John
LastName	Last name of the employee.	Smith
IsActive	This field is not recommended for use. Sending a value of false within this field will cause the record to be soft deleted from InEight and unrecoverable without assistance from InEight Professional Services.	true



Name	Description	Example
EmployeePIN	A PIN that is used by employees to verify themselves when approving hours on a time card. This is optional functionality in InEight. Data must be sent as numbers, and it is up to sender to zero pad the number if necessary. This is often populated with the employees date of birth, so the employee knows their unique pin number.	003456
CanReportTime	Determines if the employee can report time on a time card in InEight.	true
SourceSystemId	Identification of the employee record in the external system of records for employees. This field is used in the integration flow to perform a lookup of the employee within InEight to be updated or added. This field is also used to match employee records to other entities in integrations (e.g. ProjectEmployee) where an employee is cross-referenced.	00001613
SourceSystemName	Unique name assigned to the system of record by the InEight cloud platform that matches the external system using the integration.	JDE
StartDate	Start or hire date of the employee in the customer's organization. This is not a specific date for a project. If not provided, the system will use a default date of when the record was received.	1997-06-01T00:00:00+0000
EndDate	End or termination date of the employee from the customer's organization. This is not a specific date for a project. The date can be set to a future date as needed. If not provided, the system will use a default end date of 12/31/9999.	9999-12-31T00:00:00+0000
CurrencyCode	Identifies the currency associated with the employee which is used to determine the employee's standard rate of pay. To allow successful assignment of the employee record to a project, the value provided in this field must match one of the currencies used for projects.	USD
UoMName	Name or SourceSystemId of an existing Unit of Measure record that should be used for resources assigned to the employee. This is used to determine the employee's standard rate of pay.	Hour
StraightTimeRate	Rate for standard pay that should be applied for the employee within an assigned project. If a value of "" is sent in the integration, the system shall inherit any straight time rate assigned to the employee through their associated Craft.	35.00
OverTimeFactor	Factor used to multiply the standard rate of the employee to determine their overtime rate. (Straight Time X Overtime Factor = Overtime) Only provide this if not using OverTimeRate.	1



Name	Description	Example
OverTimeRate	Exact calculated rate paid to the employee for overtime work as per applicable laws. Only provide this if not using OverTimeFactor.	35.00
DoubleTimeFactor	Factor used to multiply the standard rate of the employee to determine their double time rate. (Straight Time X Double Time Factor = Double time) Only provide this if not using DoubleTimeRate.	2
DoubleTimeRate	Exact calculated rate paid to the employee for double time work as per applicable laws. Only provide this if not using DoubleTimeFactor.	70.00
UseBaseWageFactors	Flag that determines whether to use OverTimeRate and DoubleTimeRate or OverTimeFactor and DoubleTimeFactoror. Setting the value to true will indicate that factors should be used instead of specific rates.	false
UnionSourceSystemId	SourceSystemId of a Union to which the employee belongs. Must match a valid union from Master Data in InEight.	ILW
PrimaryCompany	Free-text field. The value of this field is used for information about the employee in InEight Time Center.	РК
JobTitle	Used to display the job title for the employee in the Daily Plan UI. If this field is blank, the UI will use the employee's assigned craft description.	Carpenter
UnionJobTitle	InEight Plan application can be configured to display the UnionJobTitle, JobTitle, or the craft associated to the Employee.	ILW Carpenter
SupervisorId	Used for reporting Staff Weekly Timesheets. A report can be sent to the User provided in this field for each associated employee that has WeeklyTimesheet set to <i>True</i> . The value of this field must match the SourceSystemId of a valid InEight user	john.smith@xyzcorp.com
CountryISOCode	Location/country of employment of the employee.	USA
DefaultCostCenterSourceSystemId	Default Cost Center for charging pay when hours should not be charged against the project to which they are assigned (e.g. special types of leave).	Cost Center 1
Additional Payroll Instruction Code	Default payroll processing code that can be overridden for each Time Card.	NIGHT
Is Override Additional Payroll Instruction Code Allowed	Determines if the Additional Payroll Instruction Code can be overridden for this employee.	true
ls Available Weekly Timesheet	Determines if the employee should be available for selection in a Weekly Timesheet.	false



Error Messages

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

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- Entity Logic errors are performed internally within InEight and look for specific business rule or data integrity issues record-by-record. Failures with Entity Logic validations only cause the individual record to cease processing and are written to internal InEight logging.

API/Entity Logic	Condition	Code	Message
API Validation	All received records have been validated.	202	
API Validation	Required Fields are not Provided. [Field Name] options are: • Craftld • Employeeld • FirstName • LastName • CanReportTime • CurrencyCode • UoMName	400	The request is invalid. The [Field Name] Field is required.
API Validation	Payload exceeds String Length Size. [Field Name] options are: Craftld VendorCode Employeeld FirstName LastName EmployeePIN SourceSystemId SourceSystemName StartDate EndDate CurrencyCode UoMName UnionSourceSystemId PrimaryCompany JobTitle UnionJobTitle SupervisorId CountryISOCode DefaultCostCenter SourceSystemId AdditionalPayroll InstructionCode	400	The request is invalid. The field [Field Name] must be a string with a maximum length of [String Length]. Message: The request is invalid.
Entity Logic Validation	Payload has more than one record with same SourceSystemId/DisplayId		Duplicate SourceSystemId/DisplayId {Comma separated list} found. Aborting the process.
Entity Logic Validation	Payload Data has SourceSystemId or DisplayId which already exists in database		Ignoring Employee '{EmployeeId}' as it is having duplicate SourceSystemId or DisplayId
Entity Logic Validation	Payload has invalid Craftld	200	Ignoring Employee '{EmployeeId}' as it is having invalid CraftId {CraftSourceSystemId}'



API/Entity Logic	Condition	Code	Message
Entity Logic Validation	Payload has invalid CurrencyCode.	200	Ignoring Employee'{EmployeeId}' as it is having invalid CurrencyCode {CurrencyCode}'
Entity Logic Validation	Payload has invalid UOMName.	200	lgnoring Employee'{EmployeeId}' as it is having invalid UOMName/UOMSourceSystemId '{UOMName}'
Entity Logic Validation	Payload has invalid VendorSourceSystemId.	200	lgnoring Employee '{EmployeeId}' as it is having invalid VendorCode '{VendorSourceSystemId}'
Entity Logic Validation	Payload has invalid UnionSourceSystemId.	200	Ignoring Employee'{EmployeeId}' as it is having invalid UnionSourceSystemId '{UnionSourceSystemId}'
Entity Logic Validation	Payload has invalid SupervisorSourceSystemId.	200	lgnoring Employee '{EmployeeId}' as it is having invalid SupervisorId '{Supervisor.SourceSystemId}'
Entity Logic Validation	Payload has invalid CountryISOCode.	200	Ignoring Employee'{EmployeeId}' as it is having invalid CountryISOCode '{CountryISOCode}'
Entity Logic Validation	Payload has invalid CostCenterSourceSystemId.	200	Ignoring Employee '{EmployeeId}' as it is having invalid DefaultCostCenterSourceSystemId '{CostCenter.SourceSystemId}'
Entity Logic Validation	Payload Vendorld of the Employee not equal to Vendorld of the Craft Employee	200	Ignoring Employee '{EmployeeId}' because No crafts available for this vendor and union selection.
Entity Logic Validation	Payload UnionID of the Employee not equal to UnionID of the Craft Employee	200	Ignoring Employee '{EmployeeId}' because No crafts available for this vendor and union selection.
Entity Logic Validation	Payload Employee.StartDate is less than 1900/1/1	200	Ignoring employee having employee display '{EmployeeId}'as {employee} start date should be after 01/01/1900
Entity Logic Validation	Payload Employee.StartDate is greater than Employee.EndDate	200	Ignoring Employee '{EmployeeId}' due to End date cannot occur before Start date
Entity Logic Validation	Payload has inactive records while inserting	200	Ignoring inactive Employee '{EmployeeId}' for adding
Entity Logic Validation	Payload has any rates/factors without ST rate	200	Ignoring Employee '{EmployeeId}' because ST rate is not passed
Entity Logic Validation	Payload has any rates/factors with a negative value.	200	lgnoring Employee '{EmployeeId}' because Rates/Factors should not accept -ve value
Entity Logic Validation	Payload has employee as Supervisor of themself.	200	Ignoring Employee'{EmployeeId}' for updating because Employee cannot be a Supervisor of itself
Entity Logic Validation	Payload has employee with a currency that is not part of project currencies of all the projects the employee is assigned to.	200	Ignoring Employee '{EmployeeId}' for updating because User cannot change the currency of an employee to other currency that is not part of project currencies of all the projects he/she is assigned to.



API/Entity Logic	Condition	Code	Message
Entity Logic Validation	Payload has employee with a different vendor than that of the Project craft (Rate code).	200	Ignoring Employee'{EmployeeId}' for updating because Project craft is specific to a vendor and can not be assigned to an employee of a different vendor
Entity Logic Validation	Valid Payload	200	{ Logs: [] }

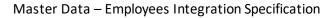
```
"CraftId": "STST",
"VendorCode": "BASE",
"EmployeeId": "00001613",
"FirstName": "John",
"LastName": "Smith",
"IsActive": true,
"EmployeePIN": "003456",
"CanReportTime": true,
"SourceSystemId": "00001613",
"SourceSystemName": "CLNTERPSOU",
"StartDate": "1997-06-01T00:00:00+0000",
"EndDate": "9999-12-31T00:00:00+0000",
"CurrencyCode": "USD"
"UOMName": "Hour",
"StraightTimeRate": 35.00,
"OverTimeFactor": 1,
"OverTimeRate": 35.00,
"DoubleTimeFactor": 2,
"DoubleTimeRate": 70.00,
"UseBaseWageFactors": true,
"UnionSourceSystemId": "ILW",
"PrimaryCompany": "PK",
"JobTitle": "Carpenter",
"UnionJobTitle": "ILW Carpenter",
"SupervisorId": "john.smith@xyzcorp.com",
"CountryISOCode": "USA",
"DefaultCostCenterSourceSystemId": "Cost Center 1",
"AdditionalPayrollInstructionCode": "NIGHT",
"IsOverrideAdditionalPayrollInstructionCodeAllowed": false,
"IsAvailableWeeklyTimeSheet": true
```

Verification

To view Employees, go to Master data libraries > Operational resources > EMPLOYEES tab.

Master Data – Employees Integration Specification

Master data libraries	 Operational re- 	ources	•				8
	EMP	LOYEES	EQUIPMENT	MATERIALS			
• 🗹 😣						View as list ①	Q
Trade 1 🔀	Craft 1 22		Employne ID 👘 👘	Employee name	UoM 👘	Status	
🗀 00 - Default	🏠 👺 1.C.01.1.01 - GF - Laborer Genera		£ 1.0.01.1.01 - GF - Laborer	1.C.01.1.01 - GF - Laborer General Fore	Hour	Active	
🗀 000 - test	1.C.D1.1.02 - FM - Laborer Forem		🗶 1111111111	1111111111111111111111	Hour	Active	
🗅 0029123334567f - VK Trade	1.0.01.1.03 - LT - Skilled Laborer		112233445566	Johnny Doe	Hour	Active	
🗅 01 - 01_edit_Info panel - T01	1.C.01.1.04 - Laborer Uncertified		A. 53555322	Test_User LK	Hour	Active	
🔁 1.0.01.Laborer - 1.0.01.Laborer	1.C.01.1.05 - LP - Partial Training		🐔 April 18	April 18 April 18	Hour	Active	
1.C.01.Operator - 1.C.01.Operator	1.C.01.1.06 - GL - General Labore		🐔 April 18 Demo Two	April 18 Demo Two April 18 Demo Two	Hour	Active	
1.C.01.Teamster - 1.C.01.Teamster	1.C.01.1.07 - UN - Untrained (Jou		≴ _ EMP002	EMP002 EMP002	Hour	Active	
1.C.02.Civil Work - 1.C.02.Civil Wo	1.C.01.1.08 - A1 - Laborer Appren		≴_ emp12	se 99	Hour	Active	
1.C.03.Concrete Carpenter - 1.C.0	1.0.01.1.09 - A2 - Laborer Appren		£ EMP-877878	EMP 877878_NW	Hour	Active	
1.0.03.Concrete Finisher - 1.0.03	1.C.01.1.10 - A3 - Laborer Appren		1 hhttp://	hjk mnmn	Hour	Active	
1.C.05.ironworker - 1.C.05.ironwo	1.C.01.1.11 - A4 - Laborer Appren		≰_ identity1880_open	ident shavaer	Hour	Active	
1.C.06.Carpenter - 1.C.06.Carpenter	without vendor - without vendor		★ MR EMP 0.1we	MR EMP 0.1 MR EMP 0.1	Hour	Active	
1.0.31.Pile Driver - 1.0.31.Pile Dri			AL MR EMP 0.2	MR EMP 0.2 MR EMP 0.2	Hour	Active	
1.0.52 Mechanic - 1.0.52 Mechanic			K MR EMP 0.3d	MR EMP 0.3 MR EMP 0.3	Hour	Active	
1.5.Staff.Supervision Business - 1			≰_ newcore123566	newcore1235666 newcore123982	Hour	Active	
1.5.Staff.Supervision.Directs - 1.5			🐔 Smoke_April08	Smoke_April08 Smoke_April08	Hour	Active	
1.5.Staff.Supervision.Engineering.							





Employees (Patch)

This integration should be used only to solve specific data maintenance issues related to having multiple sources of entry (e.g. partially in an HCM system and partially in InEight).

Direction		To InEight
Frequency		Determined by external system.
Trigger Methods		Determined by external system.
Average Pay	/load Size	Determined by external system.
APIM Name		Patch Employees
InEight Application	Starting Version	19.7
	Ending Version	

Fields

	When using this integration, any field that is not a required field can be excluded from the	
INFORTANT.	JSON. If a field is included in the JSON, the InEight data will be updated even if the field is blank	
	or contains a null value.	

See Employees (Post) Fields for detailed information.

Field Descriptions

See Employees (Post) Field Descriptions for detailed information.

Sample JSON

```
[
{
    TemployeePIN": "445566",
    "SourceSystemId": "GMILLE",
    }
]
```



Verification

To view changes to Employee records, go to Master data libraries > Operational resources > EMPLOYEES tab.

(i)	Master data libraries	*	Operational res	ources 🔻		Test Environme	nt Ĺ) (9
			EMPLOYEES	EQUIPMENT	MATERIALS				
Œ) 🗹 🛞					View a	s panel ((i)	Q
	Employee ID 🕇 🛛 🛫	Employee name		Trade	Craft	UoM =	Status		۵
	A_ DOCTEST	Millefiore Guiseppe		ST	STST	Hr	Active		^

Select a record, and then select the **Edit** icon to open the details for an employee.

* Employee ID	
DOCTEST	
* First name	* Last name
Millefiore	Guiseppe
Start date	End date
01/01/2019	12/31/2099
Primary company	Vendor
	None
	Hint: type vendor name or ID
Union	* Craft
	STST - test craft1
Hint: type the union ID or description	
Job title	Union job title
Supervisor	Employment country
	United States Of America
Hint: type the employee ID or name	
	Confirm PIN
PIN	CONTIRM PIN
	DOCTEST



Employees (Get)

This API uses the standard InEight asynchronous GET pattern (refer to "*Getting Started with InEight Integrations* – *Developer Guide*") and returns 500 records for each request. Use the OData query parameter \$skip to continue to make subsequent calls until the returned record set falls below a count of 500.

Direction		From InEight				
Frequency		Determined by external system.				
Trigger Met	hods	etermined by external system.				
Average Pay	/load Size	All Employee records				
APIM Name		List Employees				
InEight	Starting Version	19.1				
	Ending Version					

Supported Filters

This API supports standard OData query parameters of \$expand, \$filter, \$select, \$orderby, \$top, \$skip, and \$count.

Fields

NOTE: Values in the EmployeePIN field are masked for security purposes.

See Employees (Post) Fields for detailed information.

Field Descriptions

See Employees (Post) Field Descriptions for detailed information.



{"@odata.context":"https://apitest.ineight.com/integrations/\$metadata#Employees","v
alue":[{"CraftId":"00","EmployeeId":"00165836","FirstName":"Nandhu","LastName":"Sak
thi

sep","SourceSystemId":"00165836","VendorCode":"","IsActive":true,"EmployeePIN":"824
CFF6EE6A62C7E2E4D26716C4A90F53637DFD4538D9F8A2550C527275A250C","CanReportTime":fals
e,"SourceSystemName":"Nnadysep18th","StartDate":"2005-06-

01T00:00:00+00:00","EndDate":"2018-01-

19T00:00:00+00:00", "CurrencyCode": "USD", "UOMName": "Hour", "StraightTimeRate": 15.0000 0, "OverTimeFactor":1.44333, "OverTimeRate":21.65000, "DoubleTimeFactor":0.39133, "Doub leTimeRate": 5.87000, "UseBaseWageFactors": false, "UnionSourceSystemId": "", "PrimaryCom pany":"", "JobTitle":"", "UnionJobTitle":"", "SupervisorId":"", "CountryISOCode":"", "De faultCostCenterSourceSystemId":"", "AdditionalPayrollInstructionCode":"", "IsOverride AdditionalPayrollInstructionCodeAllowed":false,"IsAvailableWeeklyTimeSheet":true}, { "CraftId":"STST","EmployeeId":"00210108","FirstName":"Matthew","LastName":"Easter", "SourceSystemId":"00210108", "VendorCode":"", "IsActive":true, "EmployeePIN":"4DCF7298 CB289B64240C9E76738FE8C25622E7BA268771D903872FF676FD2A71", "CanReportTime":false, "So urceSystemName":"","StartDate":"2009-11-30T00:00:00+00:00","EndDate":"9999-12-31T00:00:00+00:00", "CurrencyCode": "USD", "UOMName": "Hour", "StraightTimeRate": 15.0000 0, "OverTimeFactor":1.44333, "OverTimeRate":21.65000, "DoubleTimeFactor":0.39133, "Doub leTimeRate": 5.87000, "UseBaseWageFactors": false, "UnionSourceSystemId": "", "PrimaryCom pany":"","JobTitle":"","UnionJobTitle":"","SupervisorId":"","CountryISOCode":"","De faultCostCenterSourceSystemId":"","AdditionalPayrollInstructionCode":"","IsOverride AdditionalPayrollInstructionCodeAllowed":false,"IsAvailableWeeklyTimeSheet":false}, {"CraftId":"STST", "EmployeeId":"00301410", "FirstName": "Padmaja", "LastName": "Marupud i", "SourceSystemId": "00301410", "VendorCode": "", "IsActive": true, "EmployeePIN": "09B2D FA65B2642381CD07D3DF48C4E232E9DAE9B85C54D5EB7B39D3D532E0DED","CanReportTime":true," SourceSystemName":"","StartDate":"2012-07-25T00:00:00+00:00","EndDate":"9999-12-31T00:00:00+00:00", "CurrencyCode": "PLN", "UOMName": "Hour", "StraightTimeRate": 2.00000 ,"OverTimeFactor":"","OverTimeRate":0.00000,"DoubleTimeFactor":"","DoubleTimeRate": 0.00000, "UseBaseWageFactors": false, "UnionSourceSystemId": "", "PrimaryCompany": "", "Jo bTitle":"","UnionJobTitle":"","SupervisorId":"","CountryISOCode":"","DefaultCostCen terSourceSystemId":"", "AdditionalPayrollInstructionCode":"", "IsOverrideAdditionalPa yrollInstructionCodeAllowed":false,"IsAvailableWeeklyTimeSheet":false}]}



Verification

To view Employee records, go to Master data libraries > Operational resources > EMPLOYEES tab.

(L)	Master data libraries	•	Operational res	sources 🔻		Test Environme	ent	Ū,	8
			EMPLOYEES	EQUIPMENT	MATERIALS				
Œ) 🗹 ⊗					View a	is panel	()	Q
	Employee ID 🕇 🛛 🛨	Employee name		Trade	Craft	UoM =	Status		
	🕵 DOCTEST	Millefiore Guiseppe		ST	STST	Hr	Active		^

Select a record, and then select the **Edit** icon to open the details for an employee.

	* Employee ID			
	DOCTEST			
Add employee				
image	* First name		* Last name	
	Millefiore		Guiseppe	
	Start date		End date	
	01/01/2019	m		m
	01/01/2015		120172000	
	Primary company		Vendor	
	Primary company		None	
			Hint: type vendor name or ID	
	Union		* Craft	
			STST - test craft1	
	Hint: type the union ID or description			
	Job title		Union job title	
	Supervisor		Employment country	
			United States Of America	-
	Hint: type the employee ID or name			
PIN				
	PIN		Confirm PIN	
	•••••			



Contacts

Contacts (Import)

New contacts and updates to account codes performed using this API are automatically published (instead of being staged) and are immediately available for use in InEight cloud applications.

IMPORTANT: When using this integration, any field that is not a required field can be excluded a JSON. If a field is included in the JSON, the InEight data will be updated even if the or contains a null value.						
Direction		From external system to InEight cloud platform.				
Frequency		Determined by external system.				
Trigger Met	hods	Determined by external system.				
Average Pay	/load Size	Determined by external system.				
APIM Name		Upsert Contacts				
InEight	Starting Version	20.11				
Application	Ending Version					

Contacts (Get)

In addition to reading and exporting information for a master list of contacts, a customer can use this integration to query contacts using SSID, name, company, or other contact details.

Direction		From InEight cloud platform to external system.				
Frequency		Determined by external system.				
Trigger Met	hods	etermined by external system.				
Average Pay	/load Size	Determined by external system.				
APIM Name		List Contacts				
InEight	Starting Version	20.11				
Application	Ending Version					



Fields

Depth	Name	Туре	Precision ¹	Parent	Req.
1	Firstname	String	100		Yes
1	Lastname	String	100		Yes
1	Company	String	200		Yes
1	PrimaryEmail	String	200		Yes
1	SecondaryEmail	String	200		Yes
1	SourceSystemId	Boolean	200		Yes
1	SourceSystemName	String	50		Yes
1	ContactTypeReference	String	50		Yes
1	LanguagePreference	String	5		No
1	VendorSourceSystemId	String	250		No
1	Department	String	250		No
1	Title	String	250		No
1	Position	String	250		No
1	OfficeNumber	String	50		No
1	MobileNumber	String	50		No
1	FaxNumber	String	50		No
1	Address1	String	250		No
1	Address2	String	250		No
1	City	String	100		No
1	Zipcode	String	50		No
1	RegionISOCode	String	10		No
1	CountryISOCode	String	10		No
1	IsActive	Boolean	NA		No

Field Descriptions

Name	Description	Example
Firstname	First name of the contact.	John
Lastname	Last name of the contact.	Smith
Company	Name of the company that the contact works for.	Acme Construction
PrimaryEmail	Primary email address for the contact.	john.smith@acmeconstr uction.com



Name	Description	Example
SecondaryEmail	Secondary email address for the contact.	John.smith@gmail.com
SourceSystemId	External unique identifier of the contact record provided by the system of record (SOR) for the contact.	d5a9936eb24d474d9996 67e76bdd8896
SourceSystemName	Unique name assigned to the system of record by the InEight cloud platform that matches the external system using the integration.	SAP-HR
ContactTypeReference	Category for the contact.	Vendor
LanguagePreference	Preferred language of conversation of the contact.	English
VendorSourceSystemId	If the contact is associated to a vendor, this is the external identifier (SourceSystemId field) from the vendor's system of record (SOR).	09690e390f804eb4ab07 0f8219d70937
Department	Department that the contact belongs to or has been assigned temporarily, in their company.	Marketing
Title	Job title of the contact in their company.	Director
Position	Job position of the contact in their company.	Director
OfficeNumber	Office phone number for the contact.	123-456-7890
MobileNumber	Mobile phone number for the contact.	123-456-7890
FaxNumber	Fax number for the contact.	123-456-7890
Address1	Street address for the contact (line 1).	231 Elm Street
Address2	Street address for the contact (line 2).	
City	City of residence or work for the contact.	Menlo Park
Zipcode	Postal code for the contact.	99867
RegionISOCode	ISO region code (state) where the contact lives/works. NOTE: Make sure to enter US- <i><state abbreviation=""></state></i> in this field. If you enter only the state abbreviation, the payload will fail.	US-CA
CountryISOCode	ISO country code where the contact lives/works.	US
IsActive	Defines if the contact is an active employee of their company.	true

Error Messages

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

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



API/Entity Logic	Condition	Code	Message
API Validation	Valid Payload	202	
API Validation	Required Fields are not Provided. [Field Name] options are: FirstName LastName Company PrimaryEmail SourceSystemId ContactTypeReference	400	The request is invalid. The [Field Name] Field is required.
API Validation	Payload exceeds String Length Size.	400	The request is invalid. The field [Field Name] must be a string with a maximum length of [String Length].
API Validation	Payload data is Empty	400	Payload was missing or invalid and was not parsed.
Entity Logic Validation	Payload has more than one record with same SourceSystemId	200	Duplicate SourceSystemId {Comma separated list of SourceSystemIds} found. Aborting the process.
Entity Logic Validation	Payload has more than one record with same Displayld	200	Duplicate DisplayId {Comma separated list of PrimaryEmail} found. Aborting the process.
Entity Logic Validation	Payload has conflict with uniqueness on SourceSystemId or DisplayId with existing data	200	Ignoring Contact '{PrimaryEmail}' as it is having duplicate SourceSystemId or DisplayId
Entity Logic Validation	Payload has inactive records while inserting	200	Ignoring inactive Contact '{PrimaryEmail}' for adding
Entity Logic Validation	Valid Payload	200	{ Logs: [] }

```
[
   {
   "FirstName": "John",
  "LastName": "Smith",
   "Company": "InEight",
   "PrimaryEmail": "satish.iyer@ineight.com",
  "SecondaryEmail": "iyer_satish_r@yahoo.com",
"SourceSystemId": "satish.iyer@ineight.com",
   "SourceSystemName": "",
   "ContactTypeReference": "Vendor",
   "LanguagePreference": "",
   "VendorSourceSystemId": "",
   "Department": "Product",
   "Title": "P.O",
   "Position": "P.O",
   "OfficeNumber": "4024406606",
   "MobileNumber": "6145781277",
   "FaxNumber": "4024406606",
```



```
"Address1": "123 Oak Street",
"Address2": "Suite 12",
"City": "Bankgor",
"ZipCode": "100067",
"RegionISOCode": "US-ME",
"CountryISOCode": "US",
"IsActive": true
}
```

Verification

1

Verify whenever a contact is added or updated in the InEight cloud platform via the UI, an external system, or APIM. From the main menu, go to Master data libraries > **Contacts** and search for the contact to validate that it was imported correctly.

÷	\rightarrow	C 🏠 🔒 mt1t01kwt	-qa-211-sea.hds.ineigh	t.com/AppCore/Contacts#	/Contact						
៤	វ	Master data libraries	•	Contacts 👻							
		Favorite projects &	organizations	Master data libraries				CONTACT TYPES			
Ŧ)	S100000 - PKS Inc	>			2					
	Full n			Account codes		Payment terms	-	Mobile number	City =	Country / Region	State
	Karth			Contacts		Qualifications			87787878	Mexico	
	My Fi			Cost categories		Revenue categories		123456789	Salem	Andorra	
	First			Cost centers		Unions		123456789	Salem	Andorra	
	Firsto							123456789	Salem		
	Dutcl		.	Currencies		Units of measure		123456789	Salem	Jamaica	Westmoreland
	Nand		★ Manage favorites	Disciplines and comm	odities	Vendors		123478965	Chennai	Mexico	
	Karth	All projects & organiza	itions	Field attributes						Djibouti	
	Rahu	Report									
	Nand	Explore	>	General ledger accoun	ts			string	string	Andorra	Canillo
	Nand	-		Incoterms				string	string	Afghanistan	Badghis
	1Test	Master data libraries	>	Operational resources				string	string	United States Of America	Nebraska
	2Test	Suite administration	>	-,				Test2	string	Anguilla	Anguilla
	3Test		i ocoreo@ginail.comoac		(0)(0)5050	Sung		string	string	Andorra	
	4Test	Test_nandy Test1812 T1est23@gmail.comsa		Test0510	string		string	string	Andorra		
	6Test_nandydfdf 6Test_Nandycx T6est23@gmail.com		MR RCE A	string		string	string	Afghanistan	Balkh		
	7Test_nandy Test175628192020 T7st23@gmail.com		testtsssasa	string		string	string	Andorra	Ordino		
	Toda	r Its me Today Its me	MyMail@gmail.com		testtsssasa				Chennai		
_	A	la baali (aaadad ka aassak	Tessandhullionnail and		MUSTICESSALS OF SERVICE	and a second second		المغدادين ممانغم		Contact Acade Production	Alson Policy (c)





Markets

Markets (Import)

New markets and updates to markets performed using this API are automatically published (instead of being staged) and are immediately available for use in InEight cloud applications.

IMPORTAI	IMPORTANT: When using the import integration, any field that is not a required field can be excluded from the JSON. If a field is included in the JSON, the InEight data will be updated even if the field is blank or contains a null value.					
Direction		From external system to InEight cloud platform.				
Frequency		Determined by external system.				
Trigger Met	hods	Determined by external system.				
Average Pay	vload Size	Determined by external system.				
APIM Name	•	Upsert Markets				
InEight	Starting Version	21.3				
Application	Ending Version					

Markets (Get)

In addition to reading and exporting information for a master list of markets, a customer can use this integration to query markets using SSID and market name.

Direction		From InEight cloud platform to external system.	
Frequency		Determined by external system.	
Trigger Methods		Determined by external system.	
Average Pay	/load Size	Determined by external system.	
APIM Name		List Markets	
InEight	Starting Version	21.3	
Application	Ending Version		



Fields

Depth	Name	Туре	Precision	Parent	Req.
1	Name	String	100		Yes
1	Description	String	100		Yes
1	SourceSystemId	String	200		Yes
1	SourceSystemName	String	200		Yes
1	IsActive	String	200		Yes

Field Descriptions

Name	Description	Example
Name	Name of the market.	Mining
Description	Description of the market.	Iron Ore mining in Utah
SourceSystemId	External identifier of the market record provided by the system of record for markets.	Satish.iyer@ineight.com
SourceSystemName	Customer provided name of the system of record for markets.	Billing
IsActive	Determines if the record is available for use.	True

Sample JSON

```
[
  {
    "Name": "John",
    "Description": "Smith",
    "SourceSystemID": "john.smithInEight.com",
    "SourceSystemName": "Billing",
    "IsActive": "T",
    }
]
```



Verification

Verify whenever a market is added or updated in the InEight cloud platform via the UI, an external system, or APIM. From the main menu, go to Master data libraries > Attributes > Markets and search for the market to validate that it was imported correctly.

÷	→ C ① @ mt	1t01kwt-qa-213-sea.hds.ineight.	com/AppCore/Attributes#/Mark	et		🖈 🗣 🛛 🛅 🖓 🔅 😵 🗄
Ξ	යි Master data libr	aries / Attributes				QA 21.3ssssssssssssss 🕜 🗘 😵 🕞 🏥
					MARKETS	
G						
Œ						F F 0 Q
	Name 🕇 👘 📃	Description	Created by	Created on	Last modified by	Last modified on
0	1007	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1008	TEST1008	Shreya bhatt	03/08/2021 2:28:25 PM	Saikiran Ineight	03/26/2021 1:45:50 AM
	1009	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	101	TESTI	Shreya bhatt	03/08/2021 2:27:52 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1010	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1011	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1012	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1013	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1014	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1015	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1016	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1017	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1018	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1019	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	102	TESTI	Shreya bhatt	03/08/2021 2:27:52 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1020	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1021	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1022	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1023	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1024	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1025	TEST1	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1026	TEST1	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1027	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
	1028	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
0	1029	TEST1	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
0	103	TESTI	Shreya bhatt	03/08/2021 2:27:52 PM	Shreya bhatt	03/08/2021 2:55:21 PM
0	1030	TESTI	Shreya bhatt	03/08/2021 2:28:25 PM	Shreya bhatt	03/08/2021 2:55:21 PM
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Currencies

Currencies (Get)

This integration allows customers to query, export, and report on their master list of currencies that can be used for various business functions in multiple InEight cloud platform applications.

Direction		From InEight cloud platform to external system.		
Frequency		Determined by external system.		
Trigger Met	hods	Determined by external system.		
Average Pay	load Size	Determined by external system.		
APIM Name		List Currencies		
InEight Starting Version		21.7		
Application	Ending Version			

Fields

Depth	Name	Туре	Precision	Parent	Req.
1	Code	String	50		Yes
1	Name	String	250		Yes
1	Entity	String	500		No
1	Symbol	String	10		No
1	CurrencySubunitName	String	250		No
1	CurrencyPluralName	String	250		No
1	CurrencySubunitPluralName	String	250		No

Field Descriptions

Name	Description	Example
Code	The public unique code that identifies the currency	EN0001
Name	Full name of the currency	U.S Dollars
Entity	Owner of the currency	USA
Symbol	Symbol of the currency	Dollar Sign
CurrencySubunitName	Full sub-unit name of the currency	Cent
CurrencyPluralName	Full plural name of the currency	Dollars
CurrencySubunitPluralName	Full plural name of the sub-unit of the currency	Cents



er /Cum	encies		Gets (Currencies using odata query options
ok Iodel - Model nline Model ()	ass (Status 200) Scheme			
arameters				
Parameter	Value	Description	Parameter Type	Data Type
\$filter		Fibers the results, based on a Boolean condition. Operator examples include: "eql" for "equals", "ne" for "does not equal", "gr" and "th" for "greater than"/"bias than", "contains("for)", "endentifth bar", sits See careryabling examples.	dneu	string
Stelect		Selects which properties to include in the response. For example, if the model has a method property of CreatedBy, and Sselect is set to "CreatedBy", then the response will only include the CreatedBy model.	dnesλ	string
Sonderby		Sorts the results. For example, setting Sorderby to "LastName FirstName" will sort the results by LastName then FirstName	query	string
Stop	1	Returns only the first n results	dnetλ	integer
\$skip		Skips the first n results	query	integer
\$count	v	Includes a count of the matching results (property "@sideta.count") in the response	query	boolean

Verification

Currencies are master data that can be viewed and edited with required permissions and accessed in Main Menu > Master data libraries > **Currencies**.



Master Data – Employees Integration Specification

	බ Master data libr	aries / Currencies			
۲	6 8				
0	Currency code 👘	Name 🕇 👘 😇	Entity	Symbol	Created by
•	ALIX	ADB Unit of Account	MEMBER COUNTRIES OF THE AFRICAN DEVELOP	XUA	Service Account
0 /	AFN	Afgheni	AFCHANISTAN	4	Service Account
0	DZD	Algerian Dinar	ALGERIA	DZD	Service Account
0	DZE	Algerian DinarE	ALGERIAE	DZDE	mahendra r
0 /	ARS	Argentine Peso	ARCENTINA	8	Service Account
0 /	AMD	Armenian Dram	ARMENIA	np.	Service Account
0 /	AWG	Aruban Florin	ARUBA	1 I	Service Account
0 /	dua	Australian Dollar	AUSTRALIA, CHRISTMAS ISLAND, COCOS (KEELIN	s	Service Account
0 /	AZN	Azerbeijanian Menat	AZERBALJAN	ман	Service Account
o j	140 a	Bahamian Dollar	BAHAMAS (THE)	s	Service Account
0	BHD	Bahraini Dinar	BAHRAIN	د.پ	Service Account
0 1	тнв	Baht	THAILAND	8	Service Account
0 6	PAB	Balboa	PANAMA	B/.	Service Account
	88D	Barbados Dollar	BARBADOS	8	Service Account
	BYR	Belarussian Ruble	BELARUS	p.	Service Account
	BZD	Belize Dollar	BELIZE	BZ\$	Service Account
	BMD	Bermudian Dollar	BERMUDA	s	Service Account
0	VEF	Bolivar	VENEZUELA (BOLIVARIAN REPUBLIC OF)	Ba	Service Account
	808	Boliviano	BOLIVIA (PLURINATIONAL STATE OF)	Sb	Service Account
	BRL	Brazilian Real	BRAZIL	RS	Service Account
	BND	Brunei Dollar	BRUNEI DARUSSALAM	8	Service Account
	BON	Bulgarian Lev	BULGARIA	78	Service Account
	BIF	Burundi Franc	BURUNDI	FBu	Service Account
	CVE	Cabo Verde Escudo	CABO VERDE	s	Service Account
	CAD	Canadian Dollar	CANADA	s	Service Account
•	KYD	Cayman Islands Dollar	CAYMAN ISLANDS (THE)	\$	Service Account
•	XOF	CFA Franc BCEA0	BENIN, BURKINA FASO, CÔTE D'IVOIRE, GUINEA-BIS	XOF	Service Account
• •	XAF	CFA Franc BEAC	CAMEROON, CENTRAL AFRICAN REPUBLIC (THE)	Fr	Service Account



Units of Measure

UOMs (Get)

This integration allows customers to query, export, and report on their master list of currencies that can be used for various business functions in multiple InEight cloud platform applications.

Direction		From InEight cloud platform to external system.			
Frequency		Determined by external system.			
Trigger Methods		Determined by external system.			
Average Pay	load Size	Determined by external system.			
APIM Name		List UOMs			
InEight Starting Version		19.9			
Application	Ending Version				

Fields

Depth	Name	Туре	Precision	Parent	Req.
1	Name	String	255		Yes
1	Description	String	250		Yes
1	MeasurementTypeName	String	50		Yes
1	MeasurementSyatemName	String	100		Yes
1	AlternateUOMSourceSystemID	String	200		Yes
1	ConversionFactor	String	250		No
1	BaseUOMName	String	50		No
1	DefaultAlternateMeasurement	String	50		No
1	IsBaseUOM	String	5		No
1	SKFUOM	String	250		No
1	SourceSystemID	String	250		No
1	SourceSystemName	String	250		No
1	IsActive	String	250		No

Descriptions

Name	Description	Example	
Name	Name of the UOM	Time	
Description	Description of the UOM	Measuring the elapsed time	



Name	Description	Example
MeasurementTypeName	Name of the Measurement Type	Seconds
MeasurementSyatemName	European or Metric System	Metric, EU
AlternateUOMSourceSystemID	System generated unique ID UOM	d5a9936eb24d474d999667e76bdd8896
ConversionFactor	The mathematical formula/algorithm needed to convert a UOM value from one system to another	Farenheit = (Celcius - 30)/2
BaseUOMName	Name of the base UOM	Time
DefaultAlternateMeasurement	Any alternate acceptable way of measureing the base UOM	Time
IsBaseUOM	Boolean value T/F	Y/N
SKFUOM	Value of the SKF UOM	Time
SourceSystemID	If UoM is entered in the UI, a GUID is system generated. If added via integration this will be the SourceSystemId from the payload.	d5a9936eb24d474d999667e76bdd8896
SourceSystemName	Unique name assigned to the system of record by the InEight cloud platform that matches the external system using the integration.	ESB
IsActive	Boolean T/F	T/F

[

```
{
   "Name": "Elapsed time",
   "Description": "Amount of time elapsed between contracts",
   "MeasurementTypeName": "Time",
   "MeasurementSystemName": "Metric",
   "AlternateUomSourceSystemId": "d5a9936eb24d47",
   "ConversionFactor": "Farenheit = (Celcius - 30)/2",
   "IsBaseUOM": true,
   "BaseUOMName": "Elapsed time",
   "SKFUOM": "Time",
   "IsActive": true,
   "SourceSystemId": "d5a9936eb24d47",
   "SourceSystemId": "ESB"
}
```



Verification

UOMs are master data that can be viewed and edited with required permissions and accessed in Main Menu > Master data libraries > **Units of measure**.

≡	E Δ Master data libraries / Units of measure										8 ⊛ ⊞
>>	Œ) 🗹 🖬 ⊗									🤋 🛈 🔍
		Name 🕇 👘 👘	Description	Measurement type	Base UoM	SKF ID	Conversion factor	Measurement system	Default alternate measurem	Created by	System managed
M		Acre1	A	Area	Square Meter	ACR	4,046.856422400000	English	НА	Service Account	No
(MI)	0	AU		Unit	None	LE	1.00000000000	Both	AU	Service Account	No
	0	Bag		Unit	None	BAG	1.00000000000	Both	Bag	Service Account	No
	0	Barrel		Unit	None	BRL	1.00000000000	Both	Barrel	Service Account	No
		BF		Unit	None	BF	1.00000000000	Both	BF	Service Account	No
		BGSF		Area	Square Meter	BSF	0.092903040000	English	m2	Service Account	No
		Board Feet		Length	Meter		3.00000000000	Metric	Meter	Shreya Bhatt	No
		BOX		Unit	None	BOX	1.00000000000	Both	PAC	Service Account	No
		BT		Unit	None	BOT	1.00000000000	Both	BT	Service Account	No
		Cal Day		Unit 🔓	None	CDY	1.00000000000	Both	Cal Day	Service Account	No
		Can		Unit	None	CAN	1.00000000000	Both	Can	Service Account	No
		ccm		Volume	Cubic Meter	CCM	0.000001000000	Metric	In3	Service Account	No
		Cell		Unit	None	CEL	1.00000000000	Both	Cell	Service Account	No
		CF		Volume	Cubic Meter	CF	0.028316846592	English	m3	Service Account	No
		CEM		Unit	None	CEM	1 000000000	Roth	CEM	Service Account	No



General Ledger

Direction		To InEight
Frequency		Determined by external system.
Trigger Met	hods	Determined by external system.
Average Pay	load Size	Possibly hundreds of records to allow for all types of work supported by a customer.
APIM Name		Upsert GeneralLedger
InEight Starting Version		20.11
Application	Ending Version	

Fields

Depth	Name	Туре	Precision	Parent	Req.
1	DisplayId	String	100		Yes
1	Description	String	255		Yes
1	SourceSystemId	String	250		No
1	SourceSystemName	String	50		No
1	IsAvailable	Boolean	NA		No
1	Translations	Array			
2	Description	String	255	Translations	No
2	Language	String	5	Translations	No

Field Descriptions

Name	Description	Example
A code (usually 2 or 6 characters) that represents or DisplayId describes the General Ledger. This is the General Ledger Accounts field in the UI.		5211012
Description	Customer-defined field that is typically used to describe or provide details about the General Ledger.	Craft Administration
SourceSystemId	The identification of the General Ledger used within the external system. In most cases, this matches the DisplayId field. This field is used by InEight to match General Ledger records to other entities where an Account Ledger is cross- referenced.	
SourceSystemName	Unique name assigned to the system of record by the InEight cloud platform that matches the external system using the integration.	CLNTERPSOU



Name Description		Example
lsAvailable	Determines the status of the account/record and whether it can be assigned. <i>True</i> equals available and <i>false</i> equals unavailable.	true
Translations	ranslations Array header for translation localized text.	
Description	Customer-defined field that is typically used to describe or provide details about the General Ledger as per the language code	Craft Administration
Language	Language code that the general ledger is shown in the UI.	EN

Error Messages

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

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

API/Entity Logic	Condition	Code	Message
API Validation Valid Payload		202	
API Validation	Required Fields are not Provided. [Field Name] options are: DisplayId Description		The request is invalid. The [Field Name] Field is required.
API Validation API Validation Payload exceeds String Length Size. [Field Name] options are: • DisplayId • Description • Language • SourceSystemId • SourceSystemName		400	The request is invalid. The field [Field Name] must be a string with a maximum length of [String Length].
Entity Logic Validation	Payload has more than one record with same SourceSystemId	200	Duplicate General ledger accounts SourceSystemId: {SourceSystemIds} found. Aborting the process.
Entity Logic Validation	Payload has more than one record with same DisplayId	200	Duplicate General ledger accounts : {DisplayIds} found. Aborting the process.
Entity Logic Validation	Payload has conflict with uniqueness on SourceSystemId or DisplayId with existing data	200	Duplicate General ledger accounts found '{DisplayId}' as it is having duplicate SourceSystemId or DisplayId
Entity Logic Validation	Valid Payload	200	{ Logs: [] }



```
[{
   "DisplayId": "5211012",
   "Description": "Craft Administration",
   "SourceSystemId": "5211012",
   "SourceSystemName": "CLNTERPSOU",
   "IsAvailable": true,
   "Translations": [
        {
            "Description": "Craft Administration",
            "Language": "EN",
            }
        ]
    }
}
```

Verification

Import General Ledger into InEight using the API AccountingLedger. The results can be validated in Main menu > Master data libraries > General ledger accounts.

≡	🖗 Master data libraries / General Indiger accounts 🛛 🖉 🖉 🛞							
Œ) 🖻 🙁					U D C		
	General ledger accounts	General ledger description - EN	State	General ledger description - ES-MX	General ledger description - FR-CA	General ledger description - PT-BR		
	501010	Consumption - Raw Materials	Active	ES_Consumption - Raw Materials_ES	FR_Consumption - Raw Materials_FR	MP_Consumption - Raw Materials_MP		
	501030	Consumption - Quality Control 1	Active	ES_Consumption - Quality ControLES	FR_Consumption - Quality Control_FR	MP_Consumption - Quality Control_MP		
	502020	Inv Res-Gain/Loss Inventory Variance	Active	ES_Inv Res-Gain/Loss Inventory Variance_ES	FR_Inv Res-Gain/Loss Inventory Variance_FR	MP_Inv Res-Gain/Loss Inventory Variance_MP		
	502050	Inv Res-Receipt without PO	Active	ES_Inv Res-Receipt without PO_ES	FR_Inv Res-Receipt without PO_FR	MP_Inv Res-Receipt without P0_MP		
	502120	Inv Chg-Scrapped Material	Active	ES_Inv Chg-Scrapped Material_ES	FR_Inv Chg-Scrapped MateriaLFR	MP_Inv Chg-Scrapped Material_MP		
	510115	Labor-Additional Wages	Active	ES_Labor-Additional Wages_ES	FR_Labor-Additional Wages_FR	MP_Labor-Additional Wages_MP		
	510250	Labor-Lump Sum Cost Moves	Active	ES_Labor-Lump Sum Cost Moves_ES	FR_Labor-Lump Sum Cost Moves_FR	MP_Labor-Lump Sum Cost Moves_MP		
	510335	Labor-Relocation Gross-up	Active	ES_Labor-Relocation Gross-up_ES	FR_Labor-Relocation Gross-up_FR	MP_Labor-Relocation Gross-up_MP		
	511110	EE-Recruiting	Active	ES_EE-Recruiting_ES	FR_EE-Recruiting_FR	MP_EE-Recruiting_MP		
	511140	EE-Moving Expense	Active	ES_EE-Moving Expense_ES	FR_EE-Moving Expense_FR	MP_EE-Moving Expense_MP		
	511150	EE-Temporary/Rental Housing	Active	ES_EE-Temporary/Rental Housing_ES	FR_EE-Temporary/Rental Housing_FR	MP_EE-Temporary/Rental Housing_MP		
	511165	EE-Awards	Active	ES_EE-Awards_ES	FR_EE-Awards_FR	MP_EE-Awards_MP		
	511175	EE-Professional dues / certification	Active	ES_EE-Professional dues / certification_ES	FR_EE-Professional dues / certification_FR	MP_EE-Professional dues / certification_MP		
	511180	EE-Subscriptions	Active	ES_EE-Subscriptions_ES	FR_EE-Subscriptions_FR	MP_EE-Subscriptions_MP		
	511210	Training-Consultants	Active	ES_Training-Consultants_ES	FR_Training-Consultants_FR	MP_Training-Consultants_MP		



Incoterms

Direction		To InEight
Frequency		Determined by external system.
Trigger Met	hods	Determined by external system.
Average Pay	vload Size	Possibly hundreds of records to allow for all types of work supported by a customer.
APIM Name		Upsert IncoTerm
InEight Starting Version		20.11
Application	Ending Version	

Fields

Depth	Name	Туре	Precision	Parent	Req.
1	DisplayId	String	100		Yes
1	Description	String	255		Yes
1	SourceSystemId	String	50		No
1	SourceSystemName	String	50		No
1	Is Available	Boolean	NA		No
1	Translations	Array			
2	Description	String	255	Translations	No
2	Language	String	10	Translations	No

Field Descriptions

Name	Description	Example		
Name	A code (usually 2 or 6 characters) that represents or Name describes the Incoterm. This is the Incoterms Code field in the UI.			
Description	escription Customer-defined field that is typically used to describe or provide details about the Incoterm.			
SourceSystemId	Identification of the Incoterm used within the external system. In most cases, this matches the Name field. This field is used by InEight to match Incoterm records to other entities where an Incoterm is cross-referenced.	CFR		
SourceSystemName	Unique name assigned to the system of record by the InEight cloud platform that matches the external system using the integration.	ERP		
Is Available	Determines the status of the incoterm and whether it can be assigned. <i>True</i> equals available and <i>false</i> equals unavailable.	true		



Name	Name Description	
Translations	Array Header for translation localized text.	
Description	Customer-defined field that is typically used to describe or provide details about the Incoterm as per the language code.	Costs and freight
Language code that the default Incoterm is shown in the UI.		EN

Error Messages

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

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

API/Entity Logic	Condition	Code	Message
API Validation	Valid Payload	202	
API Validation	Required Fields are not Provided. [Field Name] options are: Name Description	400	The request is invalid. The [Field Name] Field is required.
API Validation	Payload exceeds String Length Size. [Field Name] options are: Name Description Language SourceSystemId SourceSystemName	400	The request is invalid. The field [Field Name] must be a string with a maximum length of [String Length].
Entity Logic Validation	Payload has more than one record with same SourceSystemId		Duplicate Incoterm SourceSystemId: '{ SourceSystemId}' found. Skipping duplicate record.
Entity Logic Validation	Payload has more than one record with same Name	200	Duplicate Incoterm name: '{Name}' found. Skipping duplicate record.
Entity Logic Validation	Payload has conflict with uniqueness on SourceSystemId with existing data	200	SourceSystemId does not match with existing record : '{IncoTerm.Name}'. Skipping record.
Entity Logic Validation	Payload has conflict with uniqueness on Name with existing data	200	Incoterms code '{Name}' cannot be updated. Skipping record.
Entity Logic Validation	Valid Payload	200	{ Logs: [] }



```
[{
   "DisplayId": "CFR",
   "Description": "Costs and freight ",
   "SourceSystemId": "CFR",
   "SourceSystemName": "ERP",
   "IsAvailable": true,
   "Translation": [
        {
            "Description": "Costs and freight",
            "Language": "EN",
            ]
            ]
        }
}]
```

Verification

Import Incoterms into InEight using the API Upsert IncoTerm. The results can be validated in Main menu > Master data libraries > Incoterms.

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	Incoterms code	Incoterms description - EN	State	Incoterms description - ES-MX	Incoterms description - FR-CA	Incoterms description - PT-BI	Edit incoterms
	CFR	Costs and freight	Active	Costos y flete	Coût et fret	MP_Costs and freight_MP	Luit incoternis
	CIF	Costs, insurance & freight	Active	Costos, seguro y flete	Coût, assurance et fret	MP_Costs, insurance & freight	*Incoterms code
	CIP	Carriage and insurance paid to	Active	Transporte y seguro pagados hasta	Port payé, assurance comprise, jusqu'à	MP_Carriage and insurance p	CFR
	CPT	Carriage paid to	Active	Transporte pagado hasta	Port payé jusqu'à	MP_Carriage paid to_MP	Language entropies
	DAF	Delivered at frontier	Active	Entregado en la frontera	Rendu à la frontière	MP_Delivered at frontier_MP	Language selection
	DAP	Delivered at Place	Active	Entregado en lugar	Rendu à l'emplacement de destination	MP_Delivered at Place_MP	English (EN)
	DAT	Delivered at Terminal	Active	Entregado en terminal	Rendu au terminal	MP_Delivered at Terminal_MP	*Incoterms description (EN)
	DDP	Delivered Duty Paid	Active	Entrega con derechos pagados	Rendu droits acquittés	MP_Delivered Duty Paid_MP	Costs and freight
	DDU	Delivered Duty Unpaid	Active	Entrega con derechos no pagados	Rendu droits non acquittés	MP_Delivered Duty Unpaid_M	State
	DEQ	Delivered ex quay (duty paid)	Active	Entrega sobre muelle (derechos pagados)	Rendu à quai (droits acquittés)	MP_Delivered ex quay (duty p	Active
	DES	Delivered ex ship	Active	Entrega en buque	Rendu non déchargé	MP_Delivered ex ship_MP	Active
	EXW	Ex Works	Active	En fábrica	Départ usine	MP_Ex Works_MP	
	FAS	Free Alongside Ship	Active	Libre al costado del barco	Franco le long du navire	MP_Free Alongside Ship_MP	
	FCA	Free Carrier	Active	Libre transportista	Franco transporteur	MP_Free Carrier_MP	
	FH	Free house	Active	Libre domicilio	Franco domicile	MP_Free house_MP	
	FOB	Free on board	Active	Libre a bordo	Franco à bord	MP_Free on board_MP	
	LIN	Not Free	Active	No Ebre	Non aratuit	MP Not Frag MP	



Payment Terms

Direction		To InEight			
Frequency		Determined by external system.			
Trigger Methods		Determined by external system.			
Average Pay	load Size	Possibly hundreds of records to allow for all types of work supported by a customer.			
APIM Name		Upsert PaymentTerm			
InEight	Starting Version	20.11			
Application	Ending Version				

Fields

Depth	Name	Туре	Precision ¹	Parent	Req.
1	Name	String	50		Yes
1	Description	String	500		Yes
1	SourceSystemId	String	50		No
1	SourceSystemName	String	50		No
1	IsAvailable	Boolean	NA		No
1	IsProgressEstimateNumberRequired	Boolean	NA		No
1	IsBillingPeriodRequired	Boolean	NA		No
1	DueDays	Number	8		No
1	Translations	Array			
2	Description	String	200	Translations	No
2	Language	String	10	Translations	No

Field Descriptions

Name	Description	Example
Name	A code (usually 2 or 6 characters) that represents or describes the payment term. This is the Payment Term Code field in the UI.	NT30
Description	Customer-defined field that is typically used to describe or provide details about the payment term.	Net due in 30 days
SourceSystemId	Identification of the payment term used in the external system. In most cases, this matches the Name field. This field is used by InEight to match Incoterm records to other entities where a payment term is cross-referenced.	NT30



Name	Description	Example
SourceSystemName	Unique name assigned to the system of record by the InEight cloud platform that matches the external system using the integration.	ERP
ls Available	Determines the status of the account/record and whether it can be assigned. <i>True</i> equals available and <i>false</i> equals unavailable.	true
lsProgressEstimateNumberRequired	Determines whether Progress Estimate number is mandatory in InEight Contract Payment Request module if the same Payment Term is used in the InEight Contract application.	true
lsBillingPeriodRequired	Determines whether Billing period is mandatory in InEight Contract Payment Request module if the same Payment Term is used in the InEight Contract application.	true
DueDays	When invoices are submitted in InEight Contract, the invoice due date will be determined based on the payment term due days.	30
PaymentTermText	Array header for localization text.	
Description	Customer-defined field that is typically used to describe or provide details about the payment term as per the language code.	Net due in 30 days
Language	Language code that the payment term is shown in the UI.	EN

Error Messages

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

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

API/Entity Logic	Condition	Code	Message
API Validation	Valid Payload	202	
API Validation	Valid Payload Required Fields are not Provided. [Field Name] options are: Name Description DueDays IsProgressEstimateNumberRequired IsBillingPeriodRequired		The request is invalid. The [Field Name] Field is required.



API/Entity Logic	Condition	Code	Message
API Validation	Payload exceeds String Length Size. [Field Name] options are: Name Description Language DueDays SourceSystemId SourceSystemName	400	The request is invalid. The field [Field Name] must be a string with a maximum length of [String Length]. Message: The request is invalid.
Entity Logic Validation	Payload has more than one record with same SourceSystemId	200	Duplicate Payment term SourceSystem: {SourceSystemId} found. Aborting the process.
Entity Logic Validation	Payload has more than one record with same Name		Duplicate Payment term code: {PaymentTermNames} found. Aborting the process.
Entity Logic Validation	Payload has conflict with uniqueness on SourceSystemId or Name with existing data	200	Ignoring Payment term having Name '{ Name}' as it is having duplicate SourceSystemId or Name
Entity Logic Validation	Valid Payload	200	{ Logs: [] }

```
[{
    "Name": "NT30",
    "Description": "Net due in 30 days",
    "SourceSystemId": "NT30",
    "SourceSystemName": "ERP",
    "IsAvailable": true,
    "IsProgressEstimateNumberRequired": true,
    "IsBillingPeriodRequired": true,
    "DueDays": 0,
    "Translations": [
        {
            "Description": "Net due in 30 days",
            "Language": "EN",
            }
        ]
    }]
}]
```

Verification

Import Payment Terms into InEight using the API Upsert PaymentTerm. The results can be validated in Master data libraries > **Payment terms**.



Master Data – Employees Integration Specification

Ξ ŵ Master dat	libraries / Payment terms							0 🛱 🛛 🗑 🏢
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Payment term co	Payment term description - EN	Due days	Progress estimate required	Billing period required	State	Payment term description - ES-MX	Payment term description + FR-CA	Payment term description - PT-BR
N120	Net due in 120 days	120	No	No	Inactive	Neto a 120 dias	Montant net dù dans 120 jours	MP_Net due in 120 days_MP
NT00	DO NOT USE - Payable upon receipt	0	No	No	Inactive	NO UTILICE - Pagadero a la recepción	NE PAS UTILISER - Payable à la réception	MP_D0 NOT USE - Payable upon receipt_MP
NT05	DO NOT USE - NET DUE IN 5 DAYS	5	No	No	Inactive	NO UTILICE - NETO A 5 DÍAS	NE PAS UTILISER - DUE NET DANS 5 JOURS	MP_DO NOT USE - NET DUE IN 5 DAYS_MP
NT07	NET DUE IN 7 DAYS	7	No	No	Inactive	NETO A 7 DÍAS	MONTANT NET DÜ DANS 7 JOURS	MP_NET DUE IN 7 DAYS_MP
NT10	DO NOT USE - Net due in 10 days	10	No	No	Inactive	NO UTILICE - NETO A 10 DÍAS	NE PAS UTILISER - due net dans 10 jours	MP_DO NOT USE - NET DUE IN 10 DAVS_MP
NT15	Net due in 15 days	15	No	No	Active	Neto a 15 días	Montant net dù dans 15 jours	MP_Net due in 15 days_MP
NT20	Net due in 20 days	20	No	No	Inactive	Neto a 20 días	Montant net dù dans 20 jours	MP_Net due in 20 days_MP
NT25	DO NOT USE - NET DUE IN 25 DAYS	25	No	No	Inactive	NO UTILICE - NETO A 25 DÍAS	NE PAS UTILISER - DUE NET DANS 25 JOURS	MP_D0 NOT USE - NET DUE IN 25 DAYS_MP
NT30	Net due in 30 days	30	No	No	Active	Neto a 30 días	Montant net dù dans 30 jours	MP_Net due in 30 days_MP
NT45	Net due in 45 days	45	No	No	Active	Neto a 45 días	Montant net dù dans 45 jours	MP_Net due in 45 days_MP
NT59	Net due in 59 days	59	No	No	Inactive	Neto a 59 días	Montant net dù dans 59 jours	MP_Net due in 59 days_MP
NT60	Net due in 60 days	60	No	NO N	Active	Neto a 60 días	Montant net dù dans 60 jours	MP_Net due in 60 days_MP
NT90	Net due in 90 days	90	No	No R	Inactive	Neto a 90 días	Montant net dù dans 90 jours	MP_Net due in 90 days_MP
P000	Pay when Paid - Immediate frm recpt of	1	Yes	Yes	Active	Pagar cuando se pague - De inmediato desde la recepción del pago del cliente	Paiement sur paiement - Immédiatement à la réception du paiement du client	MP_Pay when Paid - Immediate frm recpt of Cust Paymnt_M
P003	Pay when Paid - 3 days from recpt of Cu	3	Yes	Yes	Active	Pagar cuando se pague - 3 días desde la recepción del pago del cliente	Paiement sur paiement - 3 jours à compter de la réception du paiement du client	MP_Pay when Paid - 3 days from recpt of Cust Paymnt_MP
P005	Pay when Paid - 5 days from recpt of Cu	5	Yes	Yes	Active	Pagar cuando se pague - 5 días desde la recepción del pago del cliente	Paiement sur paiement - 5 jours à compter de la réception du paiement du client	MP_Pay when Paid - 5 days from recpt of Cust Paymnt_MP
P006	Pay when Paid - 6 days from recpt of Cu	6	Yes	Yes	Active	Pagar cuando se pague - 6 días desde la recepción del pago del cliente	Paiement sur paiement - 6 jours à compter de la réception du paiement du client	MP_Pay when Paid - 6 days from recpt of Cust Paymnt_MP
P007	Pay when Paid - 7 days from recpt of Cu	7	Yes	Yes	Active	Pagar cuando se pague - 7 días desde la recepción del pago del cliente	Paiement sur paiement - 7 jours à compter de la réception du paiement du client	MP_Pay when Paid - 7 days from recpt of Cust Paymnt_MP
P008	Pay when Paid - 8 days from recpt of Cu	8	Yes	Yes	Active	Pagar cuando se pague - 8 días desde la recepción del pago del cliente	Paiement sur paiement - 8 jours à compter de la réception du paiement du client	MP_Pay when Paid - 8 days from recpt of Cust Paymnt_MP
P010	Pay when Paid - 10 days from recpt of C	10	Yes	Yes	Active	Pagar cuando se pague - 10 días desde la recepción del pago del cliente	Paiement sur paiement - 10 jours à compter de la réception du paiement du client	MP_Pay when Paid - 10 days from recpt of Cust Paymnt_MP
P015	Pay when Paid - 15 Days from recpt of C	15	Yes	Yes	Active	Pagar cuando se pague - 15 días desde la recepción del pago del cliente	Paiement sur paiement - 15 jours à compter de la réception du paiement du client	MP_Pay when Paid - 15 Days from recpt of Cust Paymnt_MP
P020	Pay when Paid - 10 Days net discount 1	10	Yes	Yes	Active	Pagar cuando se pague - 10 días descuento neto 1,5 %	Paiement sur paiement - Montant net, 10 jours, réduction de 1,5 %	MP_Pay when Paid - 10 Days net discount 1.5%_MP
P025	Pay when Paid - 10 Days net discount .5%	10	Yes	Yes	Active	Pagar cuando se pague - 10 días descuento neto 0,5%	Paiement sur paiement - Montant net, 10 jours, réduction de 0,5 %	MP_Pay when Paid - 10 Days net discount .5%_MP
P030	Pay when Paid - 10 Days net discount 2%	10	Yes	Yes	Active	Pagar cuando se pague - 10 días descuento neto 2 %	Paiement sur paiement - Montant net, 10 jours, réduction de 2 %	MP_Pay when Paid - 10 Days net discount 2%_MP
P035	Pay when Paid - 10 Days net discount 1%	10	Yes	Yes	Active	Pagar cuando se pague - 10 días descuento neto 1 %	Paiement sur paiement - Montant net, 10 jours, réduction de 1 %	MP_Pay when Paid - 10 Days net discount 1%_MP
P040	Pay when Paid - 20 Days net discount 2	20	Yes	Yes	Active	Pagar cuando se pague - 20 días descuento neto 2,5%	Paiement sur paiement - Montant net,20 jours, réduction de 2,5%	MP_Pay when Paid - 20 Days net discount 2.5%_MP
P045	Pay when Paid - 15 Days net discount 2%	15	Yes	Yes	Active	Panar cuando se nanue - 15 días descuento neto 2 %.	Paiement sur naiement - Montant net.15 icurs. réduction de 2 %	MP Pay when Paid - 15 Days net discount 21: MP