

Change Management 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
1.0	03-JUN-2024	Initial Release

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Overview

The Change Management set of integrations provides interfaces that are used in day-to-day operations of the InEight Change application in conjunction with a customer's external system.

Integrations in this Document

Integration	Description
Issues (Request)	This integration creates issues for a project that uses InEight Change.

Prerequisites

The following table lists prerequisites to using the integration in this document. These could be the presence of required supporting data or system configurations. All items in the table represent required fields in the integrations. There are many other fields in 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 in the individual integration field descriptions.

Prerequisite	Description	Required by
Configure project	Assign an External project ID in Project details page within the InEight application	Issues

Issues

Direction		To InEight cloud platform from external system.
Frequency		Determined by external system.
Trigger Methods		Determined by external system.
Average Payload Size		Entire entity – Less than 100 records. Entity delta – Less than 100 records.
APIM Name		Create Issues
InEight Change	Starting Version	24.5
	Ending Version	

Fields

Depth	Name	Type	Precision	Parent	Req.
1	ProjectDisplayId	String	200		Yes
1	Name	String	200		Yes
1	StartDate	String	Date		No
1	Description	String	NA		No
1	SourceCause	String	100		No
1	ChangeCondition	String	100		No
1	Scope	String	250		No
1	AllowanceCategory	String	250		No
1	HasWorkStarted	Boolean	NA		No
1	DelayDays	Integer	3		No
1	ScheduleStartImpact	String	50		No
1	AssignedTo	String	200		No
1	ResponsibleParty	String	100		No
1	ResponsiblePartyPerson	String	50		No
1	WasClientNotified	Boolean	NA		No
1	ConstructionArea	String	200		No
1	FieldContact	String	200		No
1	Latitude	Number	7,5		No
1	Longitude	Number	8,5		No
1	RevenueCategory	String	50		No

Depth	Name	Type	Precision	Parent	Req.
1	CustomList1	String	100		No
1	CustomList2	String	100		No
1	CustomField1	String	50		No
1	CustomField2	String	50		No
1	CustomField3	String	50		No
1	CustomField4	String	50		No
1	Language	String	10		No
1	SourceSystemId	String	200		No
1	SourceSystemName	String	200		No

Field Descriptions

Name	Description	Example
ProjectDisplayId	Display ID of the Project in the InEight application. This value shows in the UI in Project > Project details.	102447
Name	Name of issue. This value shows in the UI in Issue details page	Issue A
StartDate	Start date of the issue in ISO format (YYYY-MM-DD). Date must be less than or equal to the current date. Defaults to current date if not provided.	2024-05-06
Description	Description of issue. This value shows in the UI in Issue details > Description of change.	Omaha Facility
SourceCause	Source or cause of the issue. This value shows in the UI in Issue details > Issue description > Source/cause.	RFI
ChangeCondition	Change condition of the issue. This value shows in the UI in Issue details > Issue description > Change condition.	Design change
Scope	Scope of the issue. This value shows in the UI in Issue details > Issue description > Scope.	Out of scope
AllowanceCategory	Allowance category of the issue. This value shows in the UI in Issue details > Issue description > Allowance category.	Allowance
HasWorkStarted	Indicates if the work on this issue has started. This value shows in the UI in Issue details > Schedule impact > Has work started.	false
DelayDays	Number of days that the schedule might be delayed. The value must be within a range of -999 to 999. This value shows in the UI in Issue details > Schedule impact > Delay days	3

Name	Description	Example
ScheduleStartImpact	Indicates if the issue impacts the schedule. This value shows in the UI in Issue details > Schedule impact > Does this impact the schedule?	Yes
AssignedTo	User's email that is assigned to the issue. This value shows in the UI in Issue details > Responsible parties > Assigned to.	Test.user@email.com
ResponsibleParty	Specific party responsible for the issue. This value shows in the UI in Issue details > Responsible parties > Responsible party.	Contractor
ResponsiblePartyPerson	The person responsible for the issue. This value shows in the UI in Issue details > Responsible parties > Responsible party person	William Burke
WasClientNotified	Indicates if the client was notified of this issue. This value shows in the UI in Issue details > Correspondence > Have you verbally notified the Client.	true
ConstructionArea	Construction area for the issue. This value shows in the UI in Issue details > Field information > Construction area.	1115 – Area A
FieldContact	Field contact's email for the issue. This value shows in the UI in Issue details > Field information > Field contact.	John.Smith@email.com
Latitude	Latitude of where the issue occurred. The value has a range of -90 to 90. This value shows in the UI in Issue details > Field information > Latitude.	28.0206
Longitude	Longitude of where the issue occurred. The value has a range of -180 to 180. This value shows in the UI in Issue details > Field information > Longitude.	97.0544
RevenueCategory	Revenue category of the issue. This value shows in the UI in Issue details > Revenue category > Revenue category.	Original contract
CustomList1	Custom list 1 of the issue. This value shows in the UI in Issue details > Custom fields > Issue custom list 1.	A1
CustomList2	Custom list 2 of the issue. This value shows in the UI in Issue details > Custom fields > Issue custom list 2.	B2
CustomField1	Custom field 1 of the issue. This value shows in the UI in Issue details > Custom fields > Issue custom field 1.	C3
CustomField2	Custom field 2 of the issue. This value shows in the UI in Issue details > Custom fields > Issue custom field 2.	D4
CustomField3	Custom field 3 of the issue. This value shows in the UI in Issue details > Custom fields > Issue custom field 3.	E5
CustomField4	Custom field 4 of the issue. This value shows in the UI in Issue details > Custom fields > Issue custom field 4.	F6
Language	Display ID of language that is used to validate drop-down values (Custom list 1, Allowance category etc.) with localized texts wherever applicable for the fields provided in the payload. The possible values are en, es-MX, fr-CA, nl-NL, and nb-NO. Defaults to en if no value is provided.	en

Name	Description	Example
SourceSystemId	Unique external system ID used to identify the issue.	1111-2345
SourceSystemName	Name of the external system that is using the integration.	Construction Co

Error Messages

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

- API validation errors are basic record validations that will be returned to the API request message and cause the entire payload to fail.
- Entity logic errors are performed internally in the InEight cloud platform and products to look for specific business rule or data integrity issues record-by-record. Failures with entity logic validations only cause the individual record to cease processing and are written to internal logging.
- Validated lists will be left blank if value sent does not match settings.

API / Entity Logic	Condition	Code	Message
Entity Logic Validation	All received records have been validated.	200	Successfully saved valid <Integration Name>.
API Validation	One or more records in the message that reference other data entities could not be validated.	400	Following <Field>: {<Value>} doesn't exist in the Application.
API Validation	The payload in the body of the message was empty.	400	Parameter values are invalid

Sample JSON

```
[
  {
    "ProjectDisplayId": "102447",
    "Name": "Issue A",
    "StartDate": "2024-05-06",
    "Description": "Omaha Facility",
    "SourceCause": "RFI",
    "ChangeCondition": "Design change",
    "Scope": "Out of scope",
    "AllowanceCategory": "Allowance",
    "HasWorkStarted": false,
    "DelayDays": 3,
    "ScheduleStartImpact": "Yes",
    "AssignedTo": "Test.user@email.com",
    "ResponsibleParty": "Contractor",
    "ResponsiblePartyPerson": "William Burke",
    "WasClientNotified": true,
    "ConstructionArea": "1115 - Area A",
    "FieldContact": "John.Smith@emai.com",
    "Latitude": 28.0206,
  }
]
```



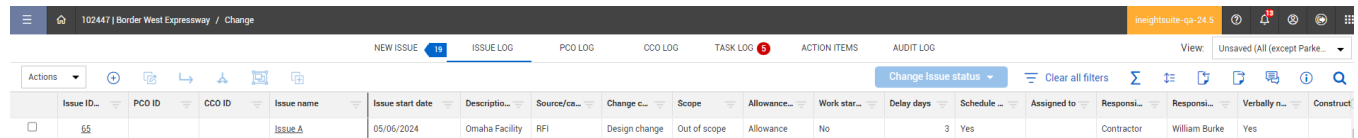
```

"Longitude": 97.0544,
"RevenueCategory": "Original contract",
"CustomList1": "A1",
"CustomList2": "B2",
"CustomField1": "C3",
"CustomField2": "D4",
"CustomField3": "E5",
"CustomField4": "F6",
"Language": "en",
"SourceSystemId": "1111-2345",
"SourceSystemName": "Construction Co"
}
]

```

Verification

After issues are added, they show in the Issue register.



Issue ID...	PCO ID	CCO ID	Issue name	Issue start date	Descriptio...	Source/ca...	Change c...	Scope	Allowance...	Work star...	Delay days	Schedule ...	Assigned to	Responsi...	Responsi...	Verbally n...	Construct
65			ISSUE.A	05/06/2024	Omaha Facility	RFI	Design change	Out of scope	Allowance	No	3	Yes		Contractor	William Burke	Yes	