

PLANNING, SCHEDULING & RISK

DESIGN USER GUIDE

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CHAPTER 1 – INEIGHT DESIGN OVERVIEW

1.0.1 Summary

InEight Design is a design management application that lets designers, engineers, and contractors manage deliverables and quantities during the design process. Design gives you visibility into a project before the design is complete so that you can mitigate risk. Design is especially useful for projects that use alternative delivery methods such as engineering, procurement, and construction (EPC) and design-build. Design brings designers, engineers, and contractors together into one application to stay on top of risks and project delivery impacts and provide transparency.

Design consists of two modules: Engineering and Quantity forecasting. Your organization might use one module more than the other depending on your industry and business processes.

The Engineering module lets you plan, allocate resources, and track the progress of design scope and deliverables.

Quantity forecasting lets EPC contractors consume design changes in quantity form, relate design changes and quantities to the budget, forecast, resource needs, and schedule, among other needs.

Design also integrates with the following InEight applications:

- Control Budget data is used to accurately forecast.
- Report Compares latest design quantity to the Control budget.
- Explore Dashboards are available for both modules.
- Plan Component data can be sent to Quantity forecasting.

1.1 OPEN DESIGN

1.1.1 Summary

You can open Design from the main menu at the project level.

1.1.2 Steps

To open Design using the main menu at the project level:

- 1. Use the URL provided, and then open the InEight software in your web browser.
- 2. Open the Main menu, and then click All projects & organizations.

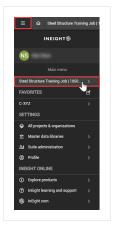
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kl	🕈 Map 🛛 🍸 C	🔗 My links	O Photo
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 InEight learning and support InEight.com 		0 0) 0 .

3. From the Projects tab of the All projects & organizations page, select a project by clicking the project name hyperlink. The Project home landing page opens.

				PROJECTS	ORGANIZATIONS					
Ð									(i) (Q
	ID 🕇 👘 🚍	Name	Stat	Organization	Created by	Created on	Original contract	Contract number	Date project start	
		Management i	-	Bar Systems	frager, balling the					
	-	delite the set	-	And Supervision	21111111111111111111111111111111111111					
			-	And Supervised						
		1000	-	they begin they	description in the second					
		from and the set	-	Res Toppensites						
		francist.	-	Rectigeneets over the	Capitor Street Products	-				
		francia di	-	Synamics cost by cost by	Coglic on a famore	-				
		francis (-	tenti da conti da conte da	Capitronics, Bankers	-				
כ		francisk (-	Antipatament conti ita	Contraction Sectors					
כ		term.int		to be its input it instants						
כ		10.00.000	-	Rear Toppengines						
כ		feet frantee and	-	And Supervision	Same Section					
כ			-	Rec Toponton						
		dama from t	-	they beginning there ago	-					
D		1000000	-	And Supervision						
כ	1000	unit from the	-	Rectigeneites of						
		sold from the	-	Rectigeneties 1						

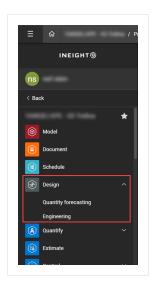
If your project is not shown on the initial screen, you can search by clicking the **Search** icon in the upper right. This search function searches all terms in all columns.

4. From the Project home landing page, click the **Main menu** icon, and then click the **project name** to open the second-level menu.



TIP

5. From the second-level drop-down menu, select **Design**, and then select the **Engineering** or **Quantity forecasting** module.



CHAPTER 2 – ADMINISTRATION OVERVIEW

2.0.1 Summary

As an administrator, you can configure settings for the Engineering and Quantity forecasting modules at the organization and project levels.

2.1 ENGINEERING SETTINGS

2.1.1 Summary

As an administrator, you can configure settings for the Engineering module at the organization and project levels. Settings at the organization level are inherited by associated child organizations and projects. At the project level, you can further refine some settings to customize how they are applied in each project.

For general information on InEight cloud platform settings, see <u>Organization Settings</u> and <u>Project</u> <u>Settings</u>.

Detailed information about Engineering module settings can be found in the links below.

2.2 PROJECT VALUES

2.2.1 Summary

You can select which project values can be associated to engineering scope items and if they are required in a project. The values are configured at the organization level in Settings > Design > Engineering > **Project values**. Project values configured at the organization level are available in all projects.

To configure project values, go to Engineering > **Project values**.

Proje	ect values Disciplines	QUANTITY FORECASTING Resource types Milestones	ENGINEERING Design elements Schedule	AUDIT LO
Project values				
Select which project values are to be used in	n engineering scope items.			
Name		Include	Required	
Area		$\overline{\bigcirc}$	$\overline{\bigcirc}$	
Construction commodity		0		
Segment		$\overline{\bigcirc}$		
Subsystem		\bigcirc	0	
System		\bigcirc		
Turnover				
Work classification		$\overline{\bigcirc}$	\bigcirc	

When you include project values, those values are available for selection in Settings at the project level. You can select or deselect the values that are not required for the project.

When you require a project value, the value is required at the project level. The project-level toggles for these values are automatically disabled.

	QU	ANTITY FORECASTIN	G ENG	INEERING	_			
Project values Accourt	nt code set	Resource types	Milestones	Schedule	Teams	Resources	Control settings	Dates
Project values								
Select which project values a	re to be use	d in engineering so	cone items					
Name	ie to be use	d in engineering st	ope nema.					Include
Area								
Area Segment								0
Segment								

The selected project values are shown in the Scope item grid and slide-out panel. You can also export and import them in a Microsoft Excel spreadsheet.

Act	ions	•	• 🗹 🗵				_						T	D	0
			ID T	*Description	*Claiming =	Claiming scheme escription	% Comp	Edit scope item							(
	~		243458	test	104783 EW BSTR	Bridge Structures - Early		Summary							
	~		76464	TESTING1	104783IND	Indirects		ID		* Description		* Claiming scheme			
	~		76463	TESTING	104783IND	Indirects		243458		test		104783 EW BSTR		*	
	~		76365	details test - import1	104783FHV IFC	Fire Hose Valve addition		Scope item qty	()	* Scope item UoM		Lead Discipline			
	~		76364	details test - import2	104783FHV IFC	Fire Hose Valve addition		1.00		Ea	*	Structural			
	~		76363	Testing credit 1 updat	104783FHV IFC	Fire Hose Valve addition		OB qty		Deliverable qty		Deliverable UoM			
	~		76362	Testing Credit 2.0 new	104783FHV IFC	Fire Hose Valve addition				0.00		Sht			
	~	0	43653	KIE Fire Hose Valve Di	104783IND	Indirects		Deliverable package		Engineering work package		Area			
	~		42754	KIE MECH - FHV Minn_	104783FHV IFC	Fire Hose Valve addition		Select one	*	Select one	*	09Ltest		*	
	~	0	L 42753	KIE MECH - FHV New	104783FHV IFC	Fire Hose Valve addition		Segment		System		Work classification			
	~		42752	KIE MECH - FHV Land	104783FHV IFC	Fire Hose Valve addition		test	*	test	*	CIV		*	
	~	0	42751	KIE MECH - FHV Chev	104783FHV IFC	Fire Hose Valve addition		Resources 🔥				0-			
	~		42750	KIE MECH - FHV Dean	104783FHV IFC	Fire Hose Valve addition_		User defined				Ð			
	~		L 42749	Jacobs MECH - FHV _	104783FHV IFC	Fire Hose Valve addition		Dates							
	~	0	42748	Jacobs MECH - FHV L	104783FHV IFC	Fire Hose Valve addition		Pares							
	~	0	L 42747	Jacobs MECH - FHV C	104783FHV IFC	Fire Hose Valve addition									

2.2.2 Considerations

• You must have the Edit engineering settings permission.

2.2.3 Related links

After project values are set up, you can configure **disciplines**. For more information on how to configure disciplines, see <u>Disciplines</u>.

2.3 ACCOUNT CODE SETS

2.3.1 Summary

Account code sets are used in the Engineering module to group together account codes and tag them for use with scope items. This lets you narrow down the account codes in the master data library to only those necessary for use in Design for specific projects.

Account code sets are created at the organization level in Settings > Design > Engineering > Account code set. To enable account code sets, turn on the toggle at the top of the page.

To view an existing account code, click the Account code set drop-down list, and then select a set. The list of account codes associated with the set opens in the table. To make an account code set available in project settings, select an account code at the organization level, and then turn on the **Include selected account code set in project settings** toggle.

At the organization level, you can perform actions such as:

- Add a new account code set.
- Add an account code to an account code set.
- Edit an account code.
- Remove an account code.
- Update account codes that have been modified in InEight Platform.
- Configure account code groups.
- Configure drawing codes.
- Import and export account codes.

At the project level, you can tie an account code set to your project. If you turn on the Tie to account code set toggle, and then select an account code set, only account codes in that set are available to assign to scope items in the project. You can also set either the primary or alternate system UoM to be used throughout the project.

2.3.2 Considerations

- You must have the permission Edit engineering settings.
- To enable or disable the Tie to account code set toggle for a project, the scope items grid must be empty.
- Only account codes available in InEight Platform Master data libraries > Account codes can be added to an account code set.
- You can delete an account code from an account code set only if it is not assigned to a scope item.

2.4 RESOURCE TYPES

2.4.1 Summary

Resource types are associated with disciplines and are used in the Engineering module to add claiming schemes. Each claiming scheme step must have an assigned resource type. Examples of resource types for an Electrical discipline might include Electrical Designer and Electrical Engineer.

Resource types are created at the organization level in Settings > Design > Engineering > **Resource types**. After creation, you can assign resource types at the suborganization level.

At the project level, all resource types from the parent organization are automatically inherited and you can assign or remove resource types as necessary.

To add a new resource type at the organization level, enter an ID, a description, and a discipline, and then click the **Add resource type** icon. To edit resource types, click in the fields, and then enter text. To remove a resource type, click the **Remove resource type** icon to the right. To adjust the position of a resource type in the list, select the resource type, and then click the up or down arrows to the right of the table.

			Disciplines	esource types	Milestones	Design elements	Sched
			L				
lesc	ource t	уре					
	Position	*ID	*Description	*Discip	line		
+	138	ARL	Architectural Landscaping	Archite	ctural	•	
	08	CEN	Civil Engineer	Civil		⊗ ^	
	09	CDS	Civil Designer	Civil		\otimes	
	10	CMT	Civil MOT	Civil		\otimes	
	11	CWL	Civil Walls	Civil		\otimes	
	12	CRD	Civil Roadway	Civil		\otimes	
	13	CGR	Civil Grading	Civil		\otimes	
	14	CSW	Civil Sitework	Civil		\otimes	
	15	CRW	Civil ROW	Civil		\otimes	

To add a resource type at the project level from the parent organization, select a description from the drop-down list, and then click the **Add resource** icon.

2.4.2 Considerations

- You must have the permission Edit engineering settings.
- When you assign a resource type to a claiming scheme step, its associated discipline is automatically populated.
- You cannot edit or remove a resource type when it is assigned to a project.

2.4.3 Related links

After resource types are set up, you can configure claiming scheme steps. For more information, see <u>Configure claiming schemes</u>.

2.5 MILESTONES

2.5.1 Summary

You can define completion milestones in the Engineering module to assign to claiming scheme steps. Examples of completion milestones might be Issue for Review or Issue for Construction.

A system-generated milestone named Scope Complete is automatically assigned to every project ensuring that all scope item's scope can be planned with dates.

Milestones are created at the organization level in Settings > Design > Engineering > **Milestones**. After creation, you can assign milestones at the suborganization level.

At the project level, all milestones from the parent organization are automatically inherited and you can assign or remove resource types as necessary.

To add a new milestone at the organization level, enter an ID, a description, and a discipline, and then click the **Add resource** icon. To edit resource types, click in the fields, and then enter text. To remove a resource type, click the **Remove resource type** icon to the right. To adjust the position of a resource type in the list, select the resource type, and then click the up or down arrows to the right of the table.

					QUANTITY	FORECASTING	ENGINEERING
			Disciplines	Resource types	Milestones	Design elements	Schedule
ilest	tones						
	Position	*ID	*Description				
+	37	IFC	Issue for Construction				
	04	ITD	Type Selection Submittal		 ⊗	•	
	05	IPD	Prelim Submittal		\otimes		
	06	IID	Interim Submittal		\otimes		
	07	IRD	Final Submittal		\otimes		
	08	ICD	IFC Submittal		\otimes		
	09	IFA	Issue for Approval		\otimes		
	10	IFD	Issue for Design		\otimes		
	11	AFC	IFC Approved		\otimes		

To add a milestone at the project level from the parent organization, select a description from the drop-down list, and then click the **Add milestone** icon.

2.5.2 Considerations

- You must have the permission Edit engineering settings.
- You cannot edit or remove a milestone when it is assigned to a project.

2.5.3 Related links

After milestones are set up, you can assign them to claiming scheme steps. For more information, see <u>Configure claiming schemes</u>.

2.6 TEAMS

2.6.1 Summary

Teams are used in the Engineering module to group resources for assignment to claiming steps on scope items. Teams can be associated with either organizations or vendors.

Teams are created at the organization level in Settings > Design > Engineering > Teams.

To add a new team at the organization level, enter an ID, a name, and either select an organization or select the Is Vendor check box and a vendor. Click the **Add team** icon. To edit teams, click in the fields, and then enter text or select an option. To remove a team, click the **Remove team** icon to the right. To adjust the position of a team in the list, select the team, and then click the up or down arrows to the right of the table.

At the project level, all teams from the parent organization are automatically inherited and you can add or remove teams as necessary.

To add a team at the project level from the parent organization, select a team from the drop-down list, and then click the **Add team** icon.

There are two additional check boxes at the project level:

- View All Scope Items When selected, team members can view all scope items, even if they are not assigned as the planned team.
- Limit Claiming to Team When selected, team members can only claim on scope items they are assigned to as the planned team.

2.6.2 Considerations

- You must have the permission Edit engineering settings.
- The Limit Claiming to Team check box is only available if the Limit user assignment to only those Teams associated with the project toggle is turned on in the Resources project settings.
- You cannot remove a team if it is already assigned to a scope item.

2.6.3 Related links

You can assign a planned team to a scope item in the Resources section of the Add and Edit scope item dialog boxes. See <u>Scope item resources</u> for more information.

For more information about resource users, see <u>Resources</u>.

2.7 RESOURCES

2.7.1 Summary

Resource users are used in the Engineering module to for assignment to claiming steps on scope items. Resource users are associated with resource types and can be grouped into teams. Resource users are created at the organization level in Settings > Design > Engineering > **Resources**.

There are multiple methods to create resource users:

- Assign resource user Add an individual resource user.
- Assign resource users by type Add multiple resource users assigned to one resource type.
- Assign resource users to team Add multiple resource users assigned to one team.

At the project level, there is a toggle called Limit user assignment to only those Teams associated with the project. When this toggle is disabled, you can assign any user with the applicable permissions to the project. When this toggle is enabled, only users assigned to teams that have been added to the project are available to assign. By default, this toggle is disabled. To enable the toggle, at least one team must be added to the project.

2.7.2 Steps

To add an individual resource user:

1. From the Resources organization settings page, click the **Add resources** icon, and then select **Assign resource user** from the drop-down menu. The Add resource slide-out panel opens.

					FORECASTING	ENGINEERING		IT LOG		
		Disciplines R	esource types	Milestones	Design elements	s Schedule	Teams	Resources	Account code	set Cause coo
esou	irces									
									(+) 🔺	r Q
	User	Resource type		Discipline		Team		Start date	+ Assig	in resource user
		Building Vertical Structu	ires	Building				04/04/2022	+ Assig	in resource users by ty
		Building Vertical Structu	ires	Building				12/03/2022	+ Assig	n resource users to te
		Building Vertical Structu	ires	Building				04/03/2022		<u> </u>
		Geotechnical Walls		Geotechnical				04/03/2022		\otimes
		Systems FLS		Systems				04/03/2022		\otimes
		Geotechnical Engineer		Geotechnical				03/04/2022		\otimes
		Building Vertical Structu	ires	Building				05/13/2022		\otimes
		Geotechnical Engineer		Geotechnical		KIE, Water		06/15/2015		\otimes
		Building Stations		Building		KIE, Water		08/19/2019		\otimes
0		Building Stations		Building		KIE		08/15/2005		\otimes

- 2. Select a user, start date, and resource type.
- 3. You can add one or more teams and select a start date for the resource user on that team. Click the **Add team** icon.

ser		*Start date	*			
Select user	± •	06/30/2022				
esource type		Discipline				
Select resource type	*					
Team		*Start date				
🛞 Enter team	-					
No te	ams have been a	ded to this resource	*			
		ided to this resource	•			

4. Click Save.

2.7.3 Considerations

- You must have the permission Edit engineering settings.
- A user can only be assigned as a resource in one organization at a time.
- You can only assign resource users to teams associated with the organization.
- If you enable the Limit user assignment to only those Teams associated with the project toggle after the project has started, the system validates that all users assigned to incomplete claiming steps are associated with teams added to the project.

2.7.4 Related links

For more information about teams, see <u>Teams</u>.

2.8 DISCIPLINES

2.8.1 Summary

You can define disciplines for the Engineering module to associate with resource types and claiming schemes. Examples of disciplines might be architectural, civil, or drainage. The list of available disciplines are configured at the organization level in Settings > Design > Engineering > **Disciplines**. Disciplines configured at the organization level are available to all projects.

To add a new discipline, enter an ID and a description, and then click the Add discipline icon.

			Disciplines Resource types	Milestones	Design elements	Schedule
scip	lines					
	Position	*ID	*Description			
+	58	W	Water			
	02	A5	Architectural	\otimes	•	
	03	н	CES Structures	\otimes		
	04	с	Civil	\otimes		
	05	D	Drainage	\otimes		
	06	E	Electrical	\otimes		
	07	z	Environmental	\otimes		
	08	к	ESDC	\otimes		
	09	x	Estimating	\otimes		

To edit disciplines, click in the fields, and then enter text. To remove a discipline, click the **Remove discipline** icon to the right. To adjust the position of a discipline in the list, select the discipline, and then click the up or down arrows to the right of the table.

2.8.2 Considerations

- You must have the permission Edit engineering settings.
- You cannot remove a discipline when it is assigned to a resource type or assigned to a claiming scheme.

2.8.3 Related links

After disciplines are set up, you can configure claiming schemes. For more information, see <u>Configure</u> <u>claiming schemes</u>.

2.9 DESIGN ELEMENTS

2.9.1 Summary

Design elements are subdisciplines that you can associate to scope items in the Engineering module. Design elements are used to group labor types above account codes for rolling up data. You can define and configure design elements at the organization level in Settings > Design > Engineering > **Design** **elements**. Design elements configured at the organization level are available to all projects in that organization.

To add a new design element, enter a unique name, select a UoM, and an associated EPC option (engineering, procurement, or construction). You can also select a parent design element to group elements together. Click the **Add design element** icon.

		Disciplines Resource type	s Milestones Design ele	ments Schedule Teams	Resources Account o	ode set Cause codes	
oign	alamanta						
esign elements) تر	
	ID		"UoM	Alternate system UoM	*EPC	Parent(optional)	
Ð		ALARM	Ea 👻	Ea	Engineering -	Select design element p 👻	
	6140	CLOSEOUT	Sht	Sht	Engineering		\otimes
	6141	CM (Sht)	Sht	Sht	Engineering		\otimes
	6142	CM (SF)	SF	m2	Engineering		\otimes
	6143	COMMUNICATIONS (Ea)	Ea	Ea	Engineering		8
	6144	COMMUNICATIONS (LF)	LF	m	Engineering		\otimes
	6145	COMMUTER RAIL	LF	m	Engineering		\otimes
	6146	CONCRETE (Ea)	Ea	Ea	Engineering		\otimes
	6147	CONCRETE (Sht)	Sht	Sht	Engineering		\otimes
	6148	CONSTRUCTION QUALITY	MWk	kW	Engineering		\otimes
	6149	CONSULTANT	PLS	PLS	Engineering		\otimes
	6150	CULVERT	SF	m2	Engineering		8

To edit design elements, click in the fields, and then enter text or select a new option. To delete a design element, click the **Delete design element** icon to the right. To adjust the position of a design element in the list, select the design element, and then click the up or down arrows to the right of the table.

You can also import and export a Microsoft Excel spreadsheet of design elements.

2.9.2 Considerations

- You must have the permission Edit engineering settings.
- The Alternate system UoM field is automatically populated according to the units of measure in the InEight Platform master data library.
- You cannot delete a design element or edit its UoM when it is assigned to a scope item.
- You cannot delete a parent design element when it has other design elements associated with it.
- Although you can group design elements together using parents, you can only assign terminal design elements to scope items.

2.9.3 Related links

You can assign a design element to a scope item in the Resources section of the Add and Edit scope item dialog boxes. See <u>Scope item resources</u> for more information.

2.10 CAUSE CODES (ENGINEERING)

2.10.1 Summary

In the Engineering module, cause codes are required when a quantity change occurs. The list of available cause codes are configured at the organization level in Settings > Design > Engineering > **Cause codes**. Cause codes configured at the organization level are available to all projects.

To add a new cause code, enter an ID and a description, and then click the Add Cause code icon.

				QUANTITY	FORECASTING	ENGINEERING	AUD	IT LOG		
			Disciplines Resource type	es Milestones	Design elements	Schedule	Teams	Resources	Account code set	Cause code
Caus	e codes									
	Position	*ID	*Description							
+	25	OtherRequest	Other Request							
	01	EngineeringErr	Engineering Error or Omission	\otimes	*					
	02	DesignProgres	Design Progression	\otimes			L.			
	02									
	02	CR	Design Growth	\otimes				,		

To edit cause codes, click in the fields, and then enter text. To delete a cause code, click the **Delete cause code** icon to the right. To adjust the position of a cause code in the list, select the cause code, and then click the up or down arrows to the right of the table.

2.10.2 Considerations

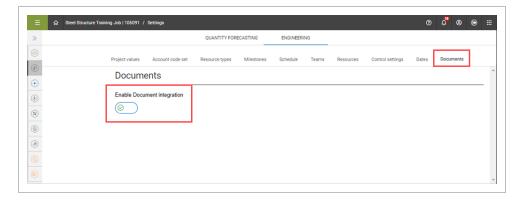
You must have the permission Edit engineering settings.

2.10.3 Related links

For more information about updating scope item quantity, see <u>Update scope item quantity</u> and <u>Update</u> <u>scope item quantity by import</u>.

2.11 DOCUMENTS

Document integration lets you map scope items and InEight Document documents in the Associate documents page. To access the Documents tab, go to project > Settings > Design > Engineering > **Documents**. Activate the **Enable Document Integration** toggle to allow integration with Document.



When Document integration is enabled, the **Associate documents** action shows in the Actions dropdown menu in Engineering > **Scope Items**.

∃ 🏠	Steel	Structure Training Jo	. / D	esign / Engineering		
					SCOPE ITEMS	AUDIT LOG
Actions	•	• <u>c</u>	8			
Associa	te docum	ents				/ Scope is u
4	Configure claiming schemes Configure work packages Configure project values Get FC Remaining MHrs/Unit			*Description	*Claiming scheme	Claiming sche description
				ID * Description	104783IND	Indirects
4				e	104783IND	Indirects
	Lock Scope			d	104783IND	Indirects
Run repo	Role assignment			PIDS CO Sheladia STR	PIDS CO Building 3 Step	PIDS CO Build
~		123798		PIDS CO Sheladia STR	PIDS CO Building 3 Step	PIDS CO Buildi
~		123797		PIDS CO Sheladia STR	PIDS CO Building 3 Step	PIDS CO Buildi
~		113859		PIDS CO Sheladia EW	PIDS CO Systems Proje	PIDS CO Syste
~		113858		PIDS CO Sheladia AR	PIDS CO Building 3 Step	PIDS CO Build
~		113857		PIDS CO Sheladia AR	PIDS CO Building 3 Step	PIDS CO Build
~	0	113856		PIDS CO Sheladia AR	PIDS CO Building 3 Step	PIDS CO Buildi

For more information about associating documents, see <u>Associate documents</u>.

2.11.1 Considerations

- To enable Document integration, you must first setup the project in InEight Platform > Suite Administration > Application integrations.
- You must have the appropriate permissions to enable Document integration.

2.12 QUANTITY FORECASTING SETTINGS

2.12.1 Summary

As an administrator, you can configure settings for the Quantity forecasting module at the organization and project levels. Settings at the organization level are inherited by associated child organizations and projects. At the project level, you can further refine some settings to customize how they are applied in each project.

For general information on InEight cloud platform settings, see <u>Organization Settings</u> and <u>Project</u> <u>Settings</u>.

Detailed information about Quantity forecasting module settings can be found in the links below.

CHAPTER 2 – GENERAL

2.0.1 Summary

Design's general settings allow project admin users access to general project configurations.

The table below is an overview of the General settings tab:

	Title	Description
1	Auto ID configuration	Allows project admins to set whether an ID is system generated or user specified when a new Quantity Item

General settings tab

General settings tab (continued)

	Title	Description
		is added to the project.
2	Account code set	Allows project admins to enable the use of Account Code Sets on a project and select which Account Code Set to use. Account Code Sets are created in the Org Settings and consist of many Account Codes that are tagged with Design Element, UoM, Ground, Discipline, Qty Source information. When an Account Code Set is tied to a project, the tagged attribute fields will be auto populated on the Quantity Item when an Account Code is assigned. The Quantity Items grid must be empty to enable/disable the Account Code Set project setting. When an Account Code Set is tied to a project, only those Account Codes in the set will be available to assign to the Quantity Item. This setting gives project admins the option to use either the Primary UoMs or Alternate System UoMs on the project when an Account Code is assigned to a Quantity Item. Project admins can also enable the ability to edit the inherited UoMs and their usage in the column, add or edit in the slide- out panel, and via import. To disable the feature, all Quantity Item UoMs must align to the assigned Account Code's UoM from the associated Account Code Set.

General settings tab (continued)

	Title	Description
3	Control Integration	Enable integration of InEight Control's WBS attributes for the project. Quantity items will inherit the Account code, Cost segment, and UoM attributes. The inherited attributes are disabled in the quantity item fields. To enable Control Integration, the WBS phase code must be selected as Required and Unique in the Quantity Forecasting > Fields and component integration settings tab and existing data must align with Control's WBS attributes.
4	Manual Unit Rate Configuration	Allows project admins to manually set the OB MHrs/Unit and/or CB MHrs/Unit on all the Quantity Items in the project. When the setting is enabled, the OB and/or CB MHrs will not be generated using the unit rates from InEight Control. With the setting enabled, the "Get OB MHrs/Unit" and/or the "Get CB MHrs/Unit" will be removed from the Actions menu and the OB MHrs/Unit and/or CB MHrs/Unit fields will become editable. The system requires all OB MHrs/Unit and/or CB MHrs/Unit fields to be empty to turn this setting Off. If you were functioning off Control OB and/or CB Unit Rates, then the system will allow you to turn this setting On, but all the OB and/or CB Unit Rate fields will be cleared.

General settings tab (continued)

	Title	Description
5	CE MHrs Configuration	Allows project admins to specify which unit rate should be used to calculate the CE MHrs on each Quantity Item in the project. The setting allows for either the CE unit rate or the CB unit rate to be used to drive the CE MHrs. This setting will be applied to all Quantity Items in the project. The setting can be changed in the middle of a project. If the setting is changed, the user will be prompted with a warning message and the system will automatically update the CE MHrs on every Quantity Item using the updated unit rate.
6	Notes	Tags - Allows project admins to add and remove tags on project which can be added to the individual notes maintained on a Quantity Item. Once a tag is created in the Organization Settings, then it will become available to add to a project through this project settings.

				QUANTITY FO	RECASTING	NGINEERING						
	Immail Design element setup Design tracking ster Into ID configuration			king stages Fi	elds and component inte	ration Schedule	Linked engineering projects	Cancel Save				
Auto	ID con	figuratior	1									
Acco	unt cod	e set										
Tied to ac	Account code set Inet to acount code cod Ine											
Cont	ol Integ	ration										
Inherit WB	S attributes? (Account code, Co:	st segment, UoM)									
Θ)											
Manu	ıal Unit	Rate Cor	figuration									
Enable edi												
	idget 🕕			_								
\odot)			(Θ							
CE M	Hrs Co	nfiguratio	n									
Select unit	rate that will o	Irive CE MHrs: 🛈	I									
Note												
	•											
Tags												
	Position	ID	*Description			↑						
	07		Select tag	-								
	01	EA	Estimating Aware		⊗ ^							
0	02	KT2	KT2		\otimes							
	03	AA	AA		\otimes							
0					\otimes							
	05	hvt2	hvt2		\otimes							

2.0.2 Considerations

You must have the applicable permissions in Quantity Forecasting

2.0.3 Steps

To navigate to the General tab, from your projects home page go to Settings > Design > Quantity Forecasting > **General**.

2.1 LINKED ENGINEERING PROJECTS

You can link projects with the goal of sharing deliverable and engineering work packages from the Engineering module to the Quantity forecasting module and show Engineering Work Packages in InEight Plan. To navigate to Linked engineering projects, from your projects home page left navigation

menu, go to Settings > Design > Quantity Forecasting. In Quantity Forecasting, select the Linked engineering projects tab.

	Openant International pool 105091 / Settings OWNITE FORECASTING ENGINEERING General Design element setup Design tracking stages Fields and component integration Linked engineering projects Chicked engineering projects Image: Colspan="4">Project ID Project description Organization 105091 Steel Structure Training Job C-XYZ Image: Colspan="4">Image: Colspan="4">Colspan="4"Colspa="4"Colspa="4"Colspan="4"Colspan="4"Colspan="4"Colspan=								
	General Design e	element setup Design tracking stages Fi	elds and component integration	ked engineering projects					
	Linked engi	neering projects							
)	QUANTITY FORECASTINO ENGINEERINO General Design element setup Design tracking stages Fields and component integration Linked engineering projects								
	& Link project								
	General Design element setup D	Project description	Organization						
		Steel Structure Training Job	C-XYZ	P			*		

To share engineering work packages between different projects and Plan, you must link the projects.

NOTE By default, each project is already linked to itself, so you can always share deliverable and engineering work packages in the same project.

In the Quantity forecasting module, there are two fields that are linked and populated from the Engineering module:

Edit quantity item				×
DETAILS	QUANTITIES	COMPONENTS	NOTES	
Select one	•	Select one	•	•
OB MHrs/Unit		CB MHrs/Unit		
		650.00		
Commodity		Construction work pack	age	
Select one	-	Select one	-	
Deliverable package		Engineering work packa	ige	
PWD	-	Bridge	-	
User defined field 1		User defined field 2		
C1001.01010				
User defined field 3		User defined field 4		
User defined field 5		User defined field 6		1
Design Complete				Ţ
		Canc	el Sav	re 🛛

- **Deliverable package**: This field draws data from Actions > Configure work packages > **Deliverable Package** in the Engineering module for linked projects.
- Engineering work package: This field draws data from Actions > Configure work packages > Engineering Work Package in the Engineering module for linked projects.

NOTE These fields are also available as columns in the quantity items grid.

After you associate a deliverable or engineering work package with a quantity item, you cannot delete the package or unlink the project.

2.1.0.1 Integration with Plan

In Plan's Work packaging module, you can associate EWPs from Design to Construction work packages (CWP). For more information on associating EWPs, see Engineering work package (EWP) in Plan's Work package creation topic.

2.1.1 Steps

To navigate to Linked engineering projects, from your projects home page left navigation menu, go to Settings > Design > Quantity Forecasting > Linked engineering projects tab.

Link projects

- 1. From the Linked engineering projects tab, click **Link project**.
- 2. In the dialog box, select one or more projects, and then click Add.

NOTE You will only see projects you have permission for.

To unlink a project, click the **Unlink** project button next to the project.

2.1.2 Related information

Engineering work package (EWP) in Work package creation.



CHAPTER 3 – ENGINEERING MODULE OVERVIEW

3.0.1 Summary

The Engineering module lets you perform design planning, resourcing, and progress tracking. The module lets you take off your design scope in a standardized method and associate configurable master and project-level data. The design scope is taken off as a combination of claiming schemes and scope items. Resources can be allocated to the scope items.

The Engineering module is integrated with InEight Control to let you assign WBS phase codes to a scope item. This lets earned quantity value flow to integrated WBS phase codes in Control, where you can manage budgets, earned value, and earned revenue.

3.1 SCOPE ITEMS

The Scope items page is the main page of the Engineering module. All individual engineering deliverables are created and tracked as scope items in the grid on this page.

The following table and image give an overview of each section of the Scope items page and what can be performed there.

	Title	Description
1	Actions menu	Do any of the following: Configure claiming schemes Configure work packages Configure project values

Overview - Scope items page

Overview - Scope items page (continued)

	Title	Description					
		Unlock BudgetRole assignment					
2	Scope item buttons	Add, edit, and delete scope items.					
3	View	Select, save, rename, and delete views.					
4	Upper right toolbar	 Create query filter - Opens the query builder Import and Export - Import and export sets of data Find - Search scope items 					
5	Scope items	Grid showing scope items and related information organized by columns.					
6	Column chooser	Select which columns are shown or hidden.					
7	Show/Hide Shows claiming scheme steps, details, and history. It also les claiming steps claim completion for each scope item.						
8	Additional views	Choose whether to view all scope items or only those Assigned to Me.					

	ID	*Description	*Claiming scheme	Claiming scheme description	% Complete	Lead discipline	Scope item qty	*Scope item UoM	OB qty	Deliverable qty	U
~	154897	Piping Example	Piping	Piping	0.0	Piping	1.00 (i)	Ea		0.00	s
~	154896	Mechanical Example	Mechanical	Mechanical	100.0	Mechanical	1.00 ()	Ea		0.00	5
~	154895	Process Example - Do	Process CS	Process CS	0.0	Process	1.00 (i)	Ea	1.00	0.00	s
~	154894	Process Example - Do	Process CS	Process CS	55.0	Process	1.00 (i)	Ea	1.00	0.00	\$
~	154893	Process Example - Do	Process CS	Process CS	54.9	Process	1.00 ()	Ea	1.00	0.00	s
~	154892	Process Example - Do	Process CS	Process CS	62.0	Process	1.00 (i)	Ea	1.00	0.00	s

3.1.1 Considerations

You must have the permission View scope items.

3.2 ADD A SCOPE ITEM

3.2.1 Summary

You can add a scope item manually in the Scope items page.

The Add scope item slide-out panel contains the following sections:

- Summary Basic details of the scope item, including:
 - ID This field is automatically populated.
 - Description Must be unique.
 - Claiming scheme Must be set up on the Configure claiming schemes page.
 - Scope item qty and UoM If an account code set in enabled for the project, the UoM must match the UoM of the resource type's associated account code in the Resources tab, which is automatically populated after you select a claiming scheme. Scope item UoM must also match WBS phase code UoM to claim progress.
 - Lead Discipline This field is automatically populated based on the claiming scheme.
 - OB qty This field is initially populated by the Scope Item qty field when the budget is locked. It is not editable but is shown for tracking purposes. If you edit the scope item qty, you must enter a reason to explain the difference. See <u>Update scope item quantity</u> for more information.
 - Deliverable qty and UoM The quantities and units of the design deliverables, such as sheets.
 - Construction work area, Work classification, and Deliverable package You can use these fields to group your scope of work.
 - Engineering work package This field can be used to group your scope of work separately from deliverable packages. For example, you might group multiple deliverable packages under one engineering work package.
- Resources Shows the resources assigned to the selected claiming scheme so you can know what percentage of scope needs to be done by each resource. See <u>Scope item resources</u> for more information.

- User defined These are free-form text fields with a maximum of 250 characters each.
- Dates

Actual start dates are an aggregated value based on the claim date that you specified when beginning claiming.

The Actual start date is based on the project setting for Dates:

		Qu	ANTITY FORECASTING	ENG	INEERING	_			
	Project values	Account code set	Resource types	Milestones	Schedule	Teams	Resources	Control settings	Dates
Dates									
Enable Scope Item Dates ()									
Scope item () Scope item / Milestone ()									
Scope item / ScheduleGrou	ıp 🛈								

- If the Dates project setting is set to Scope item, the system captures the first claim date made on the scope item in the Actual start field.
- If the Dates project setting is set to Scope item / Milestone, the system captures the first claim date made on each milestone on a claiming scheme in the Actual start field.
- If the Dates project setting is set to Scope item / ScheduleGroup, the system captures the first claim date made on each schedule group on a claiming scheme in the Actual start field.

3.2.2 Considerations

- To add a scope item, you must first add claiming schemes to associate with the scope item. For more information, see Configure claiming schemes.
- You must have the permission Add scope items.

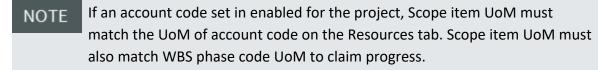
3.2.3 Steps

To add a scope item:

1. Click the **Add scope item** icon in the upper left. The Add scope item slide-out panel opens.

Aco	0115		• • •									T D	D	Q
			10 T 👳	*Description	*Claiming scheme	Claiming scheme — % Comp description	Add scope item							
	~		C) 1711				Summary							^
	~		C 1712				ID		* Description		* Claiming scheme			
	~		1713								Select one	•		
		0					Scope item qty		* Scope item UoM		Lead Discipline			
		0					0.00		EA	*				
							OB qty		Deliverable qty		Deliverable UoM			
			1716				0.00		0.00		Sht			
							Construction work area		Work classification		Deliverable package			
	~		1718				Select one	*	Select one	*	Select one	•		
	~		1720				Engineering work package							
	~		CD 1721				Select one	*						
	~		1722											
	~		1723				Resources							*
	~		1724				User defined							Ŧ
	~		1725				Dates							Ŧ
	~		1726											
			1727											
		0	0.00											

- 2. Fill out the required fields:
 - Description
 - Claiming scheme
 - Scope item UoM



3. Click Add.

3.2.4 Related links

You can also add new scope items in bulk with the import process. For more information, see <u>Import</u> new scope items

For more information about the Resource section, see Scope item resources.

After a scope item is added with a WBS phase code assigned to all assigned resource types, you can claim on it. For more information, see <u>Claim on a scope item</u>.

3.3 EDIT A SCOPE ITEM

3.3.1 Summary

You can edit a scope item manually in the Scope items page.

The Edit scope item slide-out panel contains the following sections:

- Summary Basic details of the scope item, including:
 - ID This field is automatically populated.
 - Description Must be unique.
 - Claiming scheme Cannot be edited after claiming has been made.
 - Scope item qty and UoM If you edit the quantity after claiming has been made, you must enter a reason in the Update scope item qty dialog box. See <u>Update scope item quantity</u> for more information. If an account code set in enabled for the project, the UoM must match the UoM of the resource type's associated account code in the Resources tab, which is automatically populated after you select a claiming scheme. Scope item UoM must also match WBS phase code UoM to claim progress.
 - Lead Discipline This field is automatically populated based on the claiming scheme.
 - OB qty This field is editable only if the budget is unlocked. If you edit the scope item qty, you must enter a reason to explain the difference. See <u>Update scope item quantity</u> for more information.
 - Deliverable qty and UoM The quantities and units of the design deliverables, such as sheets.
 - Construction work area, Work classification, and Deliverable package You can use these fields to group your scope of work.
 - Engineering work package This field can be used to group your scope of work separately from deliverable packages. For example, you might group multiple deliverable packages under one engineering work package.
- Resources Shows the resources assigned to the selected claiming scheme so you can know what percentage of scope needs to be done by each resource. See <u>Scope item resources</u> for more information.
- User defined These are free-form text fields with a maximum of 250 characters each.
- Dates

Actual start dates are an aggregated value based on the claim date that you specified when beginning claiming.

The Actual start date is based on the project setting for dates:

		QU	ANTITY FORECASTING	ENG	INEERING	_			
	Project values	Account code set	Resource types	Milestones	Schedule	Teams	Resources	Control settings	Dates
Dates									
Enable Scope Item Dates ()									
 Scope item () Scope item / Milestone () 									
Scope item / ScheduleGro	oup 🚯								

- If the Dates project setting is set to Scope item, the system captures the first claim date made on the scope item in the Actual start field.
- If the Dates project setting is set to Scope item / Milestone, the system captures the first claim date made on each milestone on a claiming scheme in the Actual start field.
- If the Dates project setting is set to Scope item / ScheduleGroup, the system captures the first claim date made on each schedule group on a claiming scheme in the Actual start field.

3.3.2 Considerations

You must have the permission Edit scope items.

3.3.3 Steps

To edit a scope item:

1. Select the check box to the left of one scope item and then click the **Edit scope item** icon in the upper left. The Edit scope item slide-out panel opens.

Act	ions	- [🕑 🗹 🗵								•	07 0	3 (
			10 t 👳	*Description	*Claiming scheme	Claiming scheme S Comp description	Add scope item						
	~	0	CD 1711				Summary						^
	~	0	1712				ID	* Description		* Claiming scheme			
	~	0	1713							Select one		*	
							Scope item gty	* Scope item UoM		Lead Discipline			
	~		D 1714				0.00	EA	*				
	~		1715				OB qty	Deliverable qty		Deliverable UoM			
	~		1716				0.00	0.00		Sht			
	~		C 1717										
	~	0	1718				Construction work area Select one	Work classification	*	Deliverable package Select one		*	
	~	0	1720				object one	Sevect one		oelect one			
		0	1721				Engineering work package						
							Select one						
	~		1722				Resources						
	\sim		1723										
	~		1724				User defined						•
	~		1725				Dates						*
	~		1726										
	~	0	1727										
											_		

- 2. Edit the fields you want to update.
- 3. Click Save or Save and Close.

3.3.4 Related links

For more information about the Resource section, see <u>Scope item resources</u>.

After a scope item is added with a WBS phase code assigned to all assigned resource types, you can claim on it. For more information, see <u>Claim on a scope item</u>.

3.4 SCOPE ITEM RESOURCES

3.4.1 Summary

The Resources section of the Add and Edit scope item side panels lists the resource types associated to steps in the claiming scheme assigned to the scope item.

The Resources section is organized into a grid.

Immary							•
esources							^
Resource type	WBS phase code	Account code	UoM	Design element	Role	Planned team	
Civil Engineer	1245	88.40.46.006.04	EA	PERMIT (Ea)			^
	1244	88.40.46.006.02	EA	PERMIT (Ea)			+
Civil Designer	1244	88.40.46.006.02	EA	PERMIT (Ea)			•
	1244	88.40.46.006.02	EA	PERMIT (Ea)			
er defined	1244	88.40.46.006.02	EA	PERMIT (Ea)			•
er defined	1244	88.40.46.006.02	EA	PERMIT (Ea)			•

Role	Planned team	Assigned user	% Complete	WBS % Claim Ratio	CE MHrs/Unit	Scope item qty	Scope item MHrs
			0.00	90.00	16.00	1.00	16.00
			0.00	10.00	144.00	1.00	144.00

The following columns are automatically populated based on the selected claiming scheme:

- % Complete Percent claimed by the resource type on the scope item.
- WBS % Claim Ratio Sum of % Claim across claiming steps with the associated WBS.
- CE Mhrs/Unit CE unit rate from Control of the associated WBS. See <u>Considerations</u> for more information.
- Scope item qty Automatically populated from the Summary section.
- Scope item Mhrs (CE Mhrs/Unit) × Scope item qty

The following columns can be assigned for each resource type:

- WBS
- Account code

- Design element See <u>Design elements</u> for more information.
- Role Only roles configured in the Role assignment dialog box are available. See <u>Role assignment</u> for more information.
- Planned team If roles are enabled, this field is automatically populated based on role assignment. If roles are disabled, you can assign any team according to resource project settings.
- Assigned user If roles are enabled, this field is automatically populated based on role assignment. If roles are disabled, you can assign any user according to resource project settings.
- CE Mhrs/Unit See Considerations for more information.

These assignments are inherited by claiming steps with the associated resource type in the claiming scheme.

3.4.2 Considerations

- If account code sets are enabled for the project, only account codes from the assigned account code set are available to assign to a resource type on the scope item. The design element is automatically populated based on the account code assigned. The account code UoM must match the Scope item UoM in the Summary section.
- When you assign a WBS phase code, the account code is automatically populated with the account code associated with the WBS in InEight Control. If an account code has already been assigned to the scope item's resource type, then the system checks if the account code matches Control. If the account code does not match, a warning message is shown, and the account code assignment is overridden to match Control.
- You cannot edit the WBS phase code if percent complete is above zero. If you claim up and then back down to zero, you can edit the WBS phase code.
- The CE Mhrs/Unit column can be manually edited when a WBS phase code has not been assigned. After you assign a WBS phase code, CE Mhrs/Unit is inherited from the WBS phase code.
- After the CE Mhrs/Unit column is filled, the Scope item Mhrs is automatically calculated.
- When you assign a role to a scope item, the role, planned team, and assigned user are inherited by the claiming steps. You can still update the role on individual steps if the step has not been claimed.

3.5 IMPORT NEW SCOPE ITEMS

Importing lets you add scope items in bulk. All imported scope items that pass validations are added to the Scope items page. The imported scope items that fail validations are added to the Error resolution page. All imports are shown in Audit log > Import history.

3.5.1 Considerations

You must have the permission Import scope items.

3.5.2 Steps

To import new scope items:

1. On the Scope items page, click the **Export** icon, and then select **Export scope item template**. A Microsoft Excel spreadsheet is downloaded.

SCOP	'E ITEN	IS AUDIT L	.06				View: Default	•
							y y 🕄 🕽	Q
omplete		Lead discipline	Scope item	Scope item	OB qty	Deliverable qty	Export scope item template	Eng
0	.00	Electrical	1.00 (j	LF			Export scope item data	
0	.00	Electrical	1.00 (j)	Ea			Export claiming Export schedule template	
0	.00	Electrical	1.00 (j)	Ea			Export schedule spread template	
60	.00	Electrical	1.00 (j)	Ea			0.00 Sht	
10	.00	Electrical	1.00 (j)	Ea			0.00 Sht	
0	.00	Electrical	1.00 ()	Ea			0.00 Sht	
0	.00	Electrical	1.00 (j)	Ea			0.00 Sht	
0	.00	Electrical	1.00 ()	Ea			0.00 Sht	
0	.00	Electrical	1.00 (j)	Ea			0.00 Sht	

- 2. Fill in the fields in the spreadsheet, and then save it.
- 3. On the Scope items page, click the **Import** icon, and then select **Import scope items**.

SCOPE ITEMS	S AUDIT LO	DG				View: Unsaved (Default)		•
						T	٦	Q
ing scheme	% Complete	Lead discipline	Scope item	Scope item UoM	OB qty	Import scope items	Ŧ	Deli UoN
Structure 3 Step	0.00	Structural	0.00 (j)			Import claiming	0.00	Sht
Structure 3 Step	0.00	Structural	25.00 (i)	Ea		Import schedule spread	1.00	Sht
age 3 Step (AB)	100.00	Drainage	0.50 (i)	Ea			0.60	Sht
cts	100.00	Indirects	38.00 ()	MWk			38.00	Sht
cts	100.00	Indirects	20.00 (i)	MWk			20.00	Sht
sta	0.00	Indirects	1.00 (i)	MWk			1.00	Sht
ts	0.00	Indirects	1.00 (i)	MWk			1.00	Sht
ts	0.00	Indirects	1.00 (j)	MWk			1.00	Sht

- 4. Click Browse, and then select the saved spreadsheet.
- 5. Click **Import**. The import status is shown, and then the Import history page opens. If there are any errors, they are shown in the table.
- 6. If there are issues, click **Completed with issues** in the Status column to open Scope item error resolution, and then click the scope item ID to view and resolve issues before saving.

3.5.3 Related links

You can also add individual new scope items manually using the interface. For more information, see Add a scope item.

3.6 CLAIM ON A SCOPE ITEM

3.6.1 Summary

You can claim earned quantity against a scope item directly on the Scope items page. Claiming is done in the Claiming tab of a slide-out panel that can be expanded for each scope item in the grid.

3.6.2 Considerations

- To claim, you must have the permission Edit claiming.
- To claim against a scope item, a WBS phase code must be assigned to all resource types associated with the scope item.
- If any compliance issues exist on a scope item, you cannot claim against it.

- For partial claiming using the Claim qty field, you can enter any quantity less than or equal to the scope item quantity. If Claim qty equals Scope item qty, the Complete check box is automatically selected.
- If you enter a partial quantity, and then later claim additional quantity in the same step, you must enter the total amount up to that point, not an incremental amount. For example, if a step is partially claimed for 10, and you want the current claimed quantity to be 100, you must enter 100, not 90.
- You can enter a value in the Claim qty % column if partial claiming is enabled. After you enter the percentage value, the Claim qty field is automatically filled with the corresponding quantity value.
- Claiming history can be seen in the History tab of the scope item slide-out panel and in the Claiming history tab of the Audit log.

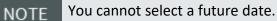
3.6.3 Steps

To claim a step on a scope item:

1. On the Scope items page, click the down arrow to the left of the scope item. An expanded panel opens to the Claiming tab.

Step Comp	14784 semplete Step	20	061		0.00 CLAIMING	Cvil		1.00 🕕 EA		1.00 0.00	SH
	omplete Step				0.444495						
	omplete Step				COMMING	DETAILS	HISTORY				
		p name		% Claim	Partial claiming	Claim qty	Date	Milestone completion	Resource type	Actual Team	Claimed by
	Revi	iew Applicable Standards and Lessons	Learned - Engineering	45.0	0 10	0.00	04/18/2022		Civil Engineer		
2	Revi	iew Contract Requirements and Owner I	Provided Documents - Enginee	ing 45.0	0 10	0.00	10/22/2021		Civil Engineer		
3	Revi	iew Applicable Standards and Lessons	Learned - Design	5.0	0 10	0.00	04/18/2022		Civil Designer		
4 0	C Revi	iew Contract Requirements and Owner I	Provided Documents - Design	5.0		0.00	04/18/2022		Civil Designer		

- 2. Select the check box in the Complete column for the step.
- 3. You can edit the Date and Claimed by fields. By default, these fields are automatically populated with today's date and the user who selected the check box.



4. You can enter a partial quantity in the Claim qty column.

```
NOTE Partial claiming must be enabled for the associated claiming scheme step to use this feature.
```

5. Click **Save** or **Save and Close**. The claim is locked and the Date, Actual team, and Claimed by fields cannot be edited.

To make changes to a claim, the step must be unclaimed, and then reclaimed.

You can also claim on scope items in bulk. For more information, see Import claiming.

3.7 UNDO CLAIMING

Undo claim wizard lets you undo claims for a step or scope item, which reduces the claiming back to 0% complete. This reverses all claims for the specific step or scope item to the day the original claim occurred.

All original claims and claim reversal are captured for audit purposes.

3.7.1 Considerations

- You must have the permission Edit claiming.
- You can undo claiming for a step or an entire scope item. See the steps below for more information.
- When a step or scope item has not been claimed and is at 0%, the undo claiming icons do not show.

3.7.2 Steps

To undo claim for a step:

1. On the Scope items page, click the **Undo claim** icon.

A dialog box shows all claims for the step.

									_	CLAIMING		DETAILS	HISTO	
		Step	Complete	Step name				% Claim	Partial c	laiming Cla	im qty Cla	im qty %	Undo claim	Date
		1		Prelim-Procure	e Mapping; ROW 8	Survey C	ontrols	1.50	0 8		2,354.04	100.00	Ś	11/11/2021
		2		Prelim-Horizon	ntal Alignments			1.50	0		2,354.04	100.00		laim 1/2021
		3		Prelim-Profile:	5			2.50	0		2,354.04	100.00	Ś	11/11/2021
	-											1		
	🗁 7234		Roadwa	y Ramp/Brdg	Roadway		Roadway 4 Milestones		23.25	2,354.	0/ (i) LF			2,354.04
p	Complete	Step	name				or the following steps							
				ping; ROW &	Claim ID	Step	Step name	Claimed qty	Claimed credit	Claimed date	Undo increment qty	Undo credi	it Undo claime date	d Undo claimed by
				ignments	46580	1	Prelim-Procure Mapping;	2,354	3.53	11/11/2021	-235.40	-3.53	11/11/2021	Julio Salguero
					46579	1	Prelim-Procure Mapping;	2,118	3.53	10/28/2021	-235.41	-3.53	10/28/2021	Julio Salguero
					46578	1	Prelim-Procure Mapping;	1,883	7.06	10/21/2021	-470.81	-7.06		Julio Salguero
				ions	46577	1	Prelim-Procure Mapping;	1,412	3.53	10/14/2021	-235.40	-3.53		Julio Salguero
				2	46576	1	Prelim-Procure Mapping;	1,177	17.65	10/02/2021	-1,177.02	-17.65	10/02/2021	Julio Salguero
				ELF CHECKS										
				DISCIPLINA	Displayed	Results:	5							
			m-DQCP 24 - IN	TERDISCIPLI									Car	icel Save
													Cal	Save

2. Click **Save** to undo claiming for the steps shown.

To undo claim for a scope item:

1. On the Scope items page, click the Undo claiming button at the bottom left.

A dialog box shows claims for all the steps in the scope item.

	₽ 7234	Roadway Ramp/Brdg	Roadway		Roadway 4 Milestones		23.25	2,354.	04 (j) LF			2,354.04
Step	Complete	Step name	Undo clair	ning fo	or the following steps							
		Prelim-Procure Mapping: ROW &	Claim ID	Step	Step name	Claimed qty	Claimed credit	Claimed date	Undo increment qty	Undo credit	Undo claimed date	Undo claimed by
		Prelim-Horizontal Alignments	84043	15	Interim-Grading Plans	588.51	20.59	03/10/2022	-588.51	-20.59	03/10/2022	Julio Salguero
		Prelim-Profiles	84037	16	Interim- Roadway, Ramp a	588.51	4.11	03/10/2022	-117.70	-4.11	03/10/2022	Julio Salguero
4		Prelim-Modeling	59109	16	Interim- Roadway, Ramp a	470.80	16.47	01/27/2022	-470.80	-16.47	01/27/2022	Julio Salguero
	-	1	59108	14	Interim-DQCP 40 - ALL CO	2,354	70.62	01/27/2022	-2,354.04	-70.62	01/27/2022	Julio Salguero
		Prelim-Typical Sections	57226	13	Prelim-DQCP 40 · CLIENT	2,354	0.00	01/21/2022	-2,354.04	0.00	01/21/2022	Julio Salguero
6		Prelim-Plan Package	54424	12	Prelim-DESIGN SUBMITTAL	2,354	11.77	12/28/2021	-2,354.04	-11.77	12/28/2021	Julio Salguero
		Prelim-DQCP 07 - SELF CHECKS	48116	11	Prelim-DQCP 16 - QA REVI	2,354	11.77	12/22/2021	-2,354.04	-11.77	12/22/2021	Julio Salguero
8		Prelim DQCP 01 - QC DISCIPLINA	Displayed	Results: 2	26							
9		Prelim-DQCP 24 - INTERDISCIPLI										
		Prelim-DOCP 25 - CONSTRUCTAL									Cance	Save

2. Click **Save** to undo claiming for the all the steps in the scope item.



When InEight Control integration is enabled, the undo claims are sent to the assigned WBS in Control.

3.7.3 Related links

You can also claim on scope items manually using the interface. For more information, see <u>Claim on a</u> <u>scope item</u>.

3.8 IMPORT CLAIMING

Importing lets you claim against scope items in bulk. All imported claiming that passes validations is added to the Scope items page. The imported claims that fail validations are added to the Error resolution page. All imports are shown in Audit log > **Import history**.

3.8.1 Considerations

- You must have the permission Import claiming.
- You can import all claiming based on either quantity or percentage. See the steps below for more information.

3.8.2 Steps

To import claiming:

1. On the Scope items page, click the **Export** icon, and then select **Export claiming**. A Microsoft Excel spreadsheet is downloaded.

SCOPEI	TEMS	AUDIT L	OG				View: Defa	ult	•
								r 🖳 🗊	Q
mplete		Lead discipline	Scope item	Scope item	OB qty	Deliverable qty		item template	Eng wor
0.0)	Electrical	1.00 (j	LF			Export scope		
0.0)	Electrical	1.00 (j)	Ea			Export claimin		
0.0		Electrical	1.00 (i)	Ea			Export sched	ule template ule spread template	
60.0		Electrical	1.00 (j)	Ea			0.00 Sh		
10.0)	Electrical	1.00 (i)	Ea			0.00 Sh	t	
0.0)	Electrical	1.00 (j)	Ea			0.00 Sh	t	
0.0)	Electrical	1.00 (j)	Ea			0.00 Sh	t	
0.0)	Electrical	1.00 (j)	Ea			0.00 Sh	t	
0.0)	Electrical	1.00 (j)	Ea			0.00 Sh	t	

- 2. Fill in values in either the Claim qty % or Claim qty columns in the spreadsheet, and then save it.
- 3. On the Scope items page, click the Import icon, and then select Import claiming.

SCOPE ITEMS	AUDIT L	OG				View: Unsaved (Default)		•
						T	٦	Q
ing scheme	% Complete	Lead discipline	Scope item	Scope item UoM	OB qty	Import scope items	-	Deli UoN
Structure 3 Step	0.00	Structural	0.00 (i)			Import claiming	0.00	Sht
Structure 3 Step	0.00	Structural	25.00 (i)	Ea		Import schedule spread	1.00	Sht
age 3 Step (AB)	100.00	Drainage	0.50 (i)	Ea			0.60	Sht
cts	100.00	Indirects	38.00 (j)	MWk			38.00	Sht
cts	100.00	Indirects	20.00 (i)	MWk			20.00	Sht
cta	0.00	Indirects	1.00 (i)	MWk			1.00	Sht
cts	0.00	Indirects	1.00 (i)	MWk			1.00	Sht
cts	0.00	Indirects	1.00 (i)	MWk			1.00	Sht

- 4. Click Browse, and then select the saved spreadsheet.
- 5. Select either **Claim by quantity** to import only values in the Claim qty column or **Claim by percentage** to import only values in the Claim qty % column.
- 6. Click **Import**. The import status is shown, and then the Import history page opens. If there are any errors, they are shown in the table.
- 7. If there are issues, click **Completed with issues** in the Status column to open Claiming error resolution, and then resolve issues before saving.

3.8.3 Related links

You can also claim on scope items manually using the interface. For more information, see <u>Claim on a</u> <u>scope item</u>.

3.9 UPDATE SCOPE ITEM QUANTITY

3.9.1 Summary

When you update the Scope item qty field of a scope item, the Update scope item qty dialog box guides you through adjusting the claiming on any previously claimed steps to reflect the new scope item quantity.

The Update scope item qty dialog box shows a grid of all steps with claiming history. The earned value is automatically adjusted to the new quantity value for complete steps. You can export all claimed steps for additional review by clicking the **Export** icon in the upper right of the grid.

To see previous scope item quantity changes, hover over the **Information** icon in the Scope item qty field.

Scope item qty		*Scope item UoM	Deliverable	- Deliverabl	e Engineering work packag
		Scope item qty cha	anges (2 total)		More details
4.00	i	Scope item qty	Cause code	Changed by	Changed date
148.00	i	148.00	Design Progres		02/12/2022 03:22:18
148.00	(j	1.00	Sample		01/13/2022 11:12:39
148.00	(i)				
148.00	i				
148.00	(i)			0.00 011	

3.9.2 Considerations

You must have the permission Edit scope items.

3.9.3 Steps

To update scope item quantity:

- 1. Select the check box to the left of one scope item and then click the **Edit scope item** icon in the upper left. The Edit scope item slide-out panel opens.
- 2. Change the value in the Scope item qty field, and then click **Save** or **Save and Close**. The Update scope item qty dialog box opens.

Sel	1(ect steps Revi	2 ew steps									
For part partial o	ion will update the claimed qty on ial claiming steps the "New claim claiming step was not previously o w claim qty" field.	qty" will be editable f	or further claiming adju	stments. If the part	ial claiming step was	previously comple	te, then the New cla	im qty will be defau			
Claim d	iate	*Cause code		Note						1	
04/1	8/2022	Constructi	on Change Request	•							
											C
Step	Step name	Partial claiming	New scope item qty	Claimed to date	Claimed to date %	New claim qty	New claim qty %	Claim qty delta	Actual Team	Claimed by	
1	Start Activity		100.00	1.0000000	100.00%	100.00	100.00%	99.00			1
2	Generate Deliverable/Model		100.00	1.0000000	100.00%	100.00	100.00%	99.00			
2	Generate Deliverable/Model		100.00	1.0000000	100.00%	100.00	100.00%	99.00			
3			100.00	1.0000000	100.00%	100.00	100.00%	99.00			
	Check for IFR					100.00	100.00%	99.00			

- 3. Select a cause code, if necessary. Optionally, add a note.
- 4. Optionally, edit the Claim date field. By default, it is set to today's date. This claim date is reflected for all steps.
- 5. Optionally, edit the Actual Team and Claimed by fields in the grid. By default, these fields are set to the team and user specified on the last claim.
- 6. Click **Next**. The Review steps page opens.
- 7. Review the changes, and then click **Update**.

3.9.4 Related links

You can also update scope item quantity for multiple scope items through the import process. For more information, see <u>Update scope item quantity by import</u>

3.10 UPDATE SCOPE ITEM QUANTITY BY IMPORT

3.10.1 Summary

When you update the Scope item qty field of multiple scope items through the import process after claims have been made, the Update all scope item qty dialog box guides you through adjusting the claiming on any previously claimed steps to reflect the new scope item quantities.

The Update all scope item qty dialog box shows grids of all selected scope items and steps with claiming history. You can export all scope items and claimed steps for additional review by clicking the **Export** icon in the upper right of the grid.

3.10.2 Considerations

You must have the permission Edit scope items.

3.10.3 Steps

To update scope item quantities by import:

1. Import a file with changes to the quantities for more than one scope item. The import process results in an error.

2. In Import history > Scope item error resolution, click the Update all scope item qty icon at the top of the grid. The Update all scope item qty dialog box opens.

Imp	ort history > Scope ite	m error resolution	
\otimes	\$5		
	Scope item ID	Description	Number of errors
_	14328	Electrical Engineering L	2

3. Select the scope items whose claiming you want to adjust.

	cope items	Select steps	laimed step for the selected so	one items				
An additi	ional claim will be ma	de on on each step to capture the o	ty delta.		anastad anna itama tira	e the		
Only thos scope ite	se scope items impor ems will need to be co	ted with no other errors will be disp rrected individually through the error	ayed to select in the grid below. In resolution grid in order to upd	It any other errors exist on in ate the scope item qty and ac	nported scope items, the ljust claiming.	n the		C
	Scope item ID	Scope item description	Existing scope item qty	New scope item qty	Claim date	Cause code	Cause code note	
	14328	Electrical Engineering Lead	45.00	50.00	04/19/2022		D	
	14329	Electrical Designer Lead	45.00	55.00	04/19/2022		D	
	14333	Inverter and MV Transform	1.00	2.00	04/19/2022		D	
								_

- 4. Select a cause code. Optionally, add a note.
- 5. Optionally, edit the Claim date. By default, it is set to today's date. This claim date is reflected for all steps.
- 6. Click Next. The Select steps page opens.

1 - Select scope it	ems S	- 2 ielect st	eps									
This action will	update the claimed	qty on e	each of the previously	claimed step for th	e selected scope	e items. An addition	al claim will be made	on on each step	to capture the qty d	elta.		
the partial claim	ing step was not p	revioush	ty" will be editable fo complete, then the	r further claiming ac New claim gty will b	djustments. If the	e partial claiming st e Claimed to date a	ep was previously co mount. The "New clai	mplete, then the M m aty %" reflects	lew claim qty will be the percentage of th	defaulted to the I step that will be	New scope item	qty amount. If d on gtv
specified in the	"New claim qty" fie	ld.										,»
Scope item ID	Scope item d	Step	Step name	Partial claiming	New scope	Claimed to date	Claimed to date %	New claim qty	New claim qty %	Claim qty delta	Actual Team	
14328	Electrical En	1	FTE Week		50.00	15.16	33.70%	15.17	30.33%	0.00		
14329	Electrical De	1	FTE Week		55.00	15.16	33.70%	15.17	27.58%	0.00		-
14333	Inverter and	1	Start Activity		2.00	1.00	100.00%	2.00	100.00%	1.00		-
14333	Inverter and	2	Generate Deliv		2.00	1.00	100.00%	2.00	100.00%	1.00		-
14333	Inverter and	3	Generate Deliv		2.00	1.00	100.00%	2.00	100.00%	1.00		
	Inverter and		Check for IFR		2.00	1.00	100.00%	2.00	100.00%	1.00		

- 7. Optionally, edit the Actual Team and Claimed by fields in the grid. By default, these fields are set to the team and user specified on the last claim.
- 8. Review the changes, and then click **Update**.

3.10.4 Related links

You can also update scope item quantity manually through the interface. For more information, see Update scope item quantity

Administrators can configure cause codes at the organization level. For more information, see <u>Cause</u> <u>codes (Engineering)</u>.

3.11 COMPLIANCE ISSUES

3.11.1 Summary

Compliance warning icons are shown on any scope item where claiming is disabled due to missing data or data discrepancies. The warning icon is shown in the Compliance column on the Scope Items page.

	Viev	V: Unsav	ed (Default)		•
		Ţ	5		Q
Deliverable package	Deliverable package description		Compliant	æ î	÷
PWD	Project Wide			^	4

To see which fields are causing a compliance issue, select the scope item with the issue, and the click the Edit scope item icon. In the Edit scope item slide-out panel, fields with issues show warning icons. When you hover over the warning icon, a message is shown with issue details and how to resolve the issue. You must resolve all compliance issues to enable claiming on a scope item.

Summary					-
Resources					^
Resource type	WBS UoM of MWk does not align with the scope item UoM. Please resolve to enable claiming	UoM	Design element	Role	Plar
Project Management	1012 👗 88.01.20.00	MWk	INDIRECTS (MWk)		KIE Â
					÷

The following list details possible compliance issues and how to resolve them:

- Claiming is disabled when scope item qty value is 0.00. Add quantity to the scope item to enable claiming.
- WBS phase code assignment is missing on the resource type. Assign a WBS phase code to the resource type to enable claiming.
- Account code is not in the assigned account code set. Add the missing account code to the account code set to resolve. This is applicable only if account codes are enabled for the project.
- Account code UoM does not match the scope item UoM. Update the scope item UoM to match the account code UoM or assign a different account code with an associated UoM that matches the scope item UoM. This is applicable only if account codes are enabled for the project.
- WBS UoM does not align with the scope item UoM. Update the scope item UoM to match the WBS UoM or assign a different WBS with an associated UoM that matches the scope item UoM.

3.11.2 Considerations

The Compliance column is not part of the default view but can be added to the grid as an available column through the column chooser.

3.12 AUDIT LOG

3.12.1 Summary

The Audit log gives you visibility to scope item changes, claiming history, import history, and scope item quantity history on a project.

The Scope item page shows changes made to any attribute field on a scope item, scope item resource type, or step details. This log also records the creation and deletion of scope items. For each change, the values before and after, the user who made the change, and the time and date the change was made are also shown.

							UDIT LOG						
													Q
Scope item	Audit type	Scope item ID	Scope item description	Resource ype	Step	Step name	Milestone	Schedule group	Attribute 👳	Value before	Value after	Changed -	Changed
Claiming history	Scope	1741	SE - ENV CS		•	•	÷		IsOBQu	False	True		05/31/20
Import history	Scope	1741	SE - ENV CS	•	•	•	•	•	OBQua		1.0000		05/31/20
	Scope	1746	AB Laydown		•		+	•	IsOBQu	False	True		05/31/20
Scope item quantity history	Scope	1746	AB Laydown						OBQua		0.4000		05/31/20

The Claiming history page shows all the claims made on scope items in the project. On this page, you can resend individual claims to InEight Control. When a claim is saved in the Engineering module, the claiming record is immediately sent to Control to consume the claim quantity on the associated WBS. If the claim does not make it to Control successfully, this feature can be used to resend the claim. To resend claims to Control, select one or more claim records in the grid, and then click the **Resend selected claims to Control** icon in the upper left.

				SCOPE ITEMS		AUDIT LO	G							
s														Q
Scope item	Claim - ID	Scope item ID	Step 📼	Step name	WBS phase code	Resource -	Claim qty	Claim qty %	Incremen - qty	Incremen = qty %	Claimed qty credit	Claimed date	Claimed by	Changed = date
Claiming history	107	42746	10	IFC DQCP 40 Client/Third P	1181	Syste	111	75.0	37.000	25.000	0.00000	05/04/	Jakob	05/04/
Import history	107	42753	10	IFC DQCP 40 Client/Third P	1178	Syste	148	100	148.00	100.00	0.00000	05/02/	Jako	05/02/
Scope item quantity history	107	42753	12	IFC Approval	1178	Syste	0.00	0.00	-148.0	-100.0	-11.840	05/02/	Jako	05/02/

The Import history page shows all the imports started on the project. If a file has any errors when it is imported, then the Failed record count column shows the number of records in error and the Status column has a value of Completed with errors, in a link.

					SCOPE ITEMS	AUDIT LC	ic .					
Scope item		Import type	File name	Status	Total record count	Successful record	Failed record count	Fixed record count	Deleted record cou	Imported by	Started on	Ended on
		ClaimingScheme	Export Claiming Scheme Tem	A Completed with errors	1	0	1	0	0		05/20/2022 12:4	06/20/2022 12:4
Claiming history	0	Schedule	Export Schedule Template (1_	8 Failed	1	0	1	0	0		05/17/2022 04:1	06/17/2022 04:1
import history	0	Schedule	Export Schedule Template.xlsx	Completed	1	1	0	0	0		06/15/2022 11:1	06/15/2022 11:2
Scope item quantity history	0	Schedule	Export Schedule Template.xisx	Completed	1	1	0	0	0		06/15/2022 11:1	06/15/2022 11:1

To view and correct errors, click **Completed with errors** to open the error resolution page. For claiming schemes and scope items, click the claiming scheme or scope item ID to view and resolve issues before saving. For claiming, resolve the issues in the grid before saving.

Claiming scheme ID	Resolv • ID	e claim	ing scheme		Descrip	tion		- Lead	1 Discipline		
	01238	W BSTR		1	Bridg	e Structures - Early Wo	rks	Stru	ictural		
	×						STEPS				
		•Step	*Step name	+% Claim	Partial claim	*Resource type	*Resource Discipline	Milestone Completion	*Schedule group	*Activity ID format	
		12	Enter step name	Enter % ci		Select resourc		Select milestone	Select sche	Select acti	
	0	1	Final Design Development	5 0		Structural Engineer	Structural		RD	AccountCode/	⊗ ^
		2	Final Design Development	5 0		Structural Engineer	Structural		RD	AccountCode/	\otimes
	0	3	Final Design Development	5		Structural Engineer	Structural		RD	AccountCode/	\otimes
	0	4	Final Design Development	5 0		Structural Engineer	Structural		RD	AccountCode/	\otimes
		5	Final Design Development	5 0		Structural Engineer	Structural		RD	AccountCode/	\otimes
		6	Final Design Development	5 0		Structural Engineer	Structural		RD	AccountCode/	\otimes
		7	Final Design Development	5 0		Structural Engineer	Structural		RD	AccountCode/	\otimes
			Sub	total:50.000%	0						

The Scope item quantity history page shows all scope item quantity updates on a project.

			50	OPE ITEMS	AUDIT LOG			
								Q
Scope item	Scope item ID	Scope item description	Scope item Transformer Transfo	Scope item 🔤	Cause code 📃 👻	Note	Changed by	Changed 🚽
Claiming history	1829	CSIE ELECTRICAL Ch	1.00000000000	0.00000000000	Sample		-	04/27/202
Import history	1713	STR - STEEL GIRDE	2,148.000000	2,149.000000	Engineering Error or O	couldn't claim up at previous qty		03/01/202
Scope item quantity history	1713	STR - STEEL GIRDE	2,147.560000	2,148.000000	Design Progression			02/25/202
	1767	MECH - HVAC Minn	12.000000000	13.000000000	Design Progression			02/14/202

3.13 ACTIONS OVERVIEW

In the Scope items page, you can perform various actions on an engineering project. The following table provides an overview of each action.

Overview - Actions

Action	Description
Configure claiming schemes	You can manage claiming schemes as the first step in setting up a project in the Engineering module. Claiming schemes are required to be configured prior to creating a scope item.
Configure work packages	Manage work packages in the Engineering or Deliverable package tabs. After a work package is created on a project, it will become available to assign on a Scope Item within the project.
Configure project values	Create project values for Segment, Construction commodity, System, Turnover packages, Subsystem, Work classification, Assigned disciplines, and Assigned commodities on a project. You can assign these to scope items.
Get FC Remaining MHrs/Unit	You can get the current Forecast Remaining unit rate from Control for the WBS phase codes on the project and calculate the remaining forecasted man hours on the related scope items where the WBS is assigned. Control Integration must be enabled in project settings.
Lock and Unlock Scope	When you initially lock scope on a project, a snapshot is taken of the original quantity for each existing scope item. Cause codes are required for any scope item quantity changes. When unlocked, the OB qty field is editable on all existing scope items. A warning will show when scope is unlocked that reads " <i>Scope is unlocked</i> ".
Role assignment	Manage role assignments in a project in the Current and Future Assignments tab and view its history in the User Assignment History tab.

Actions -	•	+ Ľ	6						•	to to
Configure claiming schemes Configure work packages			-	*Description	*Claiming	Claiming scheme	% Complete	Compliance	-	Lead discipline
Configure	project	values		Piping Example	Piping	Piping	0.00			Piping
Unlock Scope Role assignment			Mechanical Example	Mechanical	Mechanical	100.00			Mechanical	
			Process Example - Do	Process CS	Process CS	0.00			Process	
~		154894		Process Example - Do	Process CS	Process CS	55.00			Process
~		154893		Process Example - Do	Process CS	Process CS	54.99			Process
~		154892		Process Example - Do	Process CS	Process CS	62.00			Process

3.13.1 Considerations

You must have applicable permissions in Engineering.

3.14 CONFIGURE CLAIMING SCHEMES

3.14.1 Summary

A claiming scheme is a sequence of steps and milestones used to record progress of engineering deliverables called scope items. Steps and milestones are assigned a completion percentage based on the level of effort to complete each step. This lets you progressively track progress as phases of design are completed on a daily or weekly basis.

Claiming schemes are broken out into engineering disciplines, which are set up at the organization level. See <u>Disciplines</u> for more information.

Configuring claiming schemes is the first step in setting up a project in the Engineering module.

To configure claiming schemes, open the Engineering module to the Scope items page, and then click Actions > **Configure claiming schemes**.

ł	Actions • 🕑 🗹 🛞
	Configure claiming schemes
ľ	Configure engineering work packages Configure claiming schemes
4	Configure project values
	Get FC Remaining MHrs/Unit
	Lock Budget
	Role assignment
	Run report

You can add claiming schemes using the following methods on the Configure claiming schemes page:

- Add button Manually add a claiming scheme in the user interface.
- Copy button Copy an existing claiming scheme
- Import scope items button

3.14.2 Considerations

- Scope Items cannot be created on a project without a claiming scheme assigned.
- You must have the permission View claiming schemes.

3.15 ADD A CLAIMING SCHEME MANUALLY

3.15.1 Summary

Claiming schemes can be manually added individually using the Add button on the Configure claiming schemes page. When you add a claiming scheme, you must also set up at least one step in the claiming scheme.

A system-generated milestone named Scope Complete is automatically assigned to a claiming scheme's last step if the last step is a null value when configured.

Claiming schemes can also be added individually using the Copy button and in bulk using the Import claiming scheme button.

3.15.2 Considerations

- You must have resource types and disciplines added to the organization and project to be able to add claiming schemes. See Disciplines for more information.
- The Resource discipline field of a claiming scheme step is automatically populated based on the selected resource type.
- You must assign a Lead Discipline to each claiming scheme. This discipline is separate from the resource disciplines assigned to each individual steps, which do not need to match the lead discipline. This is useful when a claiming scheme generally falls under one discipline even if individual steps' assigned resource types fall under different disciplines.
- You can optionally set up a step for partial claiming, which lets you claim only partial completion for that individual step.
- You can optionally assign a single project milestone to a step. You must have milestones set up and assigned to the project.
- The sum of % Claim across all steps must equal 100% to save a claiming scheme.
- You must have the permission Add claiming schemes.

3.15.3 Steps

To add a claiming scheme manually:

1. Click the Add claiming scheme button. The Add claiming scheme slide-out panel opens.

•	⊡ ⊗										9	5 Q
0	Claiming scheme / S	Add claiming sch	eme									
Discipline: Civil		* ID			Description			•1	ead Discipline			
0								4	Select one			*
0							STEPS					
0												•
0		"Step	"Step name	*% Claim Enter % claim	Partial claiming		*Resource Discipline	Milestone Completion	*Schedule group	*Activity ID format		
0		1	Enter step name	Enter % claim		Select resource type 👻		Select milestone	✓ Select schedule gr ✓	Select activity ID format 👻		. *
0						No steps exist on th	e claiming scheme.					
0												
0												
0												
0												
0												
0												
0												
0				Subtotal:0.000%								Ť
0												

- 2. Fill out required fields:
 - ID must be unique
 - Lead Discipline
- 3. Fill out the required fields for the first step:
 - Step number
 - Step name
 - % Claim The percentage completed by this individual step.
 - Resource type
 - Schedule group
 - Activity ID format
- 4. Optionally, select the **Partial claiming** check box if you want to be able to claim only partial completion of this step.
- 5. Optionally, select a milestone under Milestone Completion for the step.
- 6. To add additional steps, click the **Add** icon on the right, and then repeat steps 3-5.

NOTE To delete a step at any time, click the Delete claiming scheme step icon on the right.

7. Click Add.

3.15.4 Related links

After claiming schemes are added, you can add scope items associated with claiming schemes. For more information, see <u>Scope items</u> and <u>Add a scope item</u>.

You can also create a claiming scheme by copying an existing one. For more information, see <u>Copy a</u> claiming scheme.

You can also create claiming schemes in bulk by importing. For more information, see <u>Import claiming</u> <u>schemes</u>.

3.16 COPY A CLAIMING SCHEME

3.16.1 Summary

You can copy an existing claiming scheme and its steps from the Configure claiming schemes page. You also have an opportunity to modify details of the claiming scheme and its steps before saving.

Copying an existing claiming scheme is useful when you want to create multiple claiming schemes whose steps are similar to each other and that only require minor modifications instead of creating each claiming scheme from scratch.

3.16.2 Considerations

- You can only copy one claiming scheme at a time.
- You must have the permission Add claiming schemes.

3.16.3 Steps

To copy an existing claiming scheme:

- 1. Open the Configure claiming schemes page, and then select one claiming scheme in the grid. The Copy claiming scheme button is enabled in the upper left.
- 2. Click the **Copy claiming scheme** button. The Copy claiming scheme slide-out panel opens.

Ľ	@ ⊗											9) (
	Claiming scheme / S	Copy cla	iming sch	eme									
cipline: Civil		• ID				Description			• .	ead Discipline			
									4	Select one			٣
0								STEPS					
0													↑
0			*Step	*Step name Enter step name	*% Claim	Partial claiming	*Resource type Select resource type -	*Resource Discipline	Milestone Completion Select milestone	Schedule group Select schedule gr	*Activity ID format Select activity ID format		Ļ
0		0	1	Start Task - Pull Template Spec and Checklist.	5.000		Civil Engineer	Civil		AA	Account Code/Area/Wor	8	
0		0		Update general references.	5.000		Civil Engineer	Civil		AA	Account Code/Area/Wor	8	
0		0	3	Review lessons learned.	5.000		Civil Engineer	Civil		AA	Account Code/Area/Wor	8	
0		0	3	Update template files with project specific									
0		0	4	information.	10.000		Civil Engineer	Civil		AA	Account Code/Area/Wor	\otimes	
0			5	Prepare applicable attachments.	10.000		Civil Engineer	Civil		AA	Account Code/Area/Wor	8	
0			6	Check for IFR	5.000	•	Civil Engineer	Civil		AA	Account Code/Area/Wor	8	
0			7	Issue IFR	0.000		Civil Engineer	Civil		AA	Account Code/Area/Wor	\otimes	
0		0	8	Internal/Owner Review comments received	0.000	•	Civil Engineer	Civil		WR	Account Code/Area/Wor	8	
0				Sub	total:100.000%								
0													
0													

- 3. Enter a unique ID, and then select a Lead Discipline.
- 4. Modify or delete existing steps, or add new steps, as necessary.
- 5. Click Save.

3.16.4 Related links

After claiming schemes are added, you can add scope items associated with claiming schemes. For more information, see <u>Scope items</u> and <u>Add a scope item</u>.

You can also create a claiming scheme from scratch. For more information, see <u>Add a claiming scheme</u> manually.

You can also create claiming schemes in bulk by importing. For more information, see <u>Import claiming</u> <u>schemes</u>.

3.17 IMPORT CLAIMING SCHEMES

3.17.1 Summary

Importing lets you add claiming schemes in bulk using a Microsoft Excel spreadsheet. Each row in the spreadsheet represents one step in a claiming scheme.

All imported claiming schemes that pass validations are added to the Configure claiming schemes page. The imported claiming schemes that fail validations are added to the Error resolution page. All imports are shown in Audit log > Import history.

3.17.2 Considerations

• You must have the permission Import claiming schemes.

There are two export options:

- Template This option exports a blank Excel template that you fill out to add new claiming schemes.
- Data export This option exports an Excel file of all selected claiming schemes. To select all claiming schemes, select the check box in the upper left of the Configure claiming schemes page.

You can only import new claiming schemes, not edit existing ones. To edit an existing claiming scheme on the Configure claiming schemes page, select a claiming scheme, and then click the **Edit claiming scheme** icon.

A system-generated milestone named Scope Complete is automatically assigned to a claiming scheme's last step if the last step is a null value when configured.

3.17.3 Steps

To import claiming schemes using the Excel template:

 In the Configure claiming schemes page, click the Export claiming scheme icon, and then select Template from the drop-down menu. The Export Claiming Scheme Template.xlsx spreadsheet is downloaded.



- 2. Open the template in Excel.
- 3. Fill out the required fields for each claiming scheme and step. Each row represents one step. The ID column is the name of the claiming scheme.

	A	B	C	D	E	F	G	н
1	REQUIRED	Field is required for import						
2	OPTIONAL	Field is optional for import						
3	IGNORED	Field not to be populated						
	Note:							
		lity only allows for new Claimin	a Schemes to	he cre	ated. Existing Claiming Schemes can be updated using the edit button.			
		field should be specified as eithe			ated. Existing claiming schemes can be updated using the edit button.			
					gets inherited from the Resource type assignment.			
	ID	Description			• • •	% Claim	Partial claiming	Resource type
	0123 EW BSTR	Bridge Structures - Early Work				5.000	True	Structural Engineer
	0123 EW BSTR	Bridge Structures - Early Works				5.000	False	Structural Engineer
	0123 EW BSTR	Bridge Structures - Early Works		5		5.000	True	Structural Engineer
	0123 EW BSTR			3		5.000	False	
		Bridge Structures - Early Works		4				Structural Engineer
	0123 EW BSTR	Bridge Structures - Early Works		5		5.000	True	Structural Engineer
	0123 EW BSTR	Bridge Structures - Early Works		6	Final Design Development Bridge Structures- Coordination with Track and Systems C		False	Structural Engineer
	0123 EW BSTR	Bridge Structures - Early Works		7		5.000	True	Structural Engineer
	0123 EW BSTR	Bridge Structures - Early Works		8		5.000	False	Structural Engineer
14	0123 EW BSTR	Bridge Structures - Early Works		9		5.000	True	Structural Engineer
15	0123 EW BSTR	Bridge Structures - Early Works	s Structural	10	Final DQCP 01 - Self Checks Complete	3.000	False	Structural Engineer
16	0123 EW BSTR	Bridge Structures - Early Works	s Structural	11	Final DQCP 01 QC Disciplinary Review	2.000	True	Structural Engineer
		Scheme (+)			4			

- 4. Save the Excel file.
- 5. In the Configure claiming schemes page, click the **Import claiming scheme** icon.
- 6. In the Import data from template dialog box, click **Browse**, and then select the Excel file. Click **Import**. The Import history page opens with the status of the import.

Import data from template The data will be imported into Design engineering Drag and drop the file here or browse Browse	× D
L	
Cancel Import	

7. If there are issues, click **Completed with issues** in the Status column to open Claiming scheme error resolution, and then click the claiming scheme ID to view and resolve issues before saving.

3.17.4 Related links

After claiming schemes are added, you can add scope items associated with claiming schemes. For more information, see <u>Scope items</u> and <u>Add a scope item</u>.

You can also create claiming schemes manually. For more information, see <u>Add a claiming scheme</u> manually.

3.18 CONFIGURE WORK PACKAGES OVERVIEW

A work package is a small, manageable scope of work that can be assigned for supervision, execution, and tracking.

In the Configure work packages page, the Engineering Work Package and Deliverable Package tabs are where you can create a list of work packages associated with the project. To open Configure work packages, go to Engineering > Scope Items > Actions > **Configure work packages**.

•	r (*												D D O
	*Display ID	Construction need by date	Discipline	# of scope items 🚽	% Complete	CE total MHrs	Earned MHrs	Forecast remaining MHrs	Planned start 🚽	Planned finish	Current start	Current finish	Actual start 🚽
	Process	07/28/2023	Process	4	49	2,800.00	1,362.49	1,437.50	12/20/2022	07/27/2023	11/15/2022	10/31/2023	05/18/2023
	Mechanical	08/31/2023	Mechanical										
	Pieiro	09/01/2023	Piping										
	EWP	07/07/2023	Building	2	0 🛆	2,778.00 📥	0.00 🛆	2,778.00	05/23/2023	06/30/2023	01/01/2020	05/30/2023	06/21/2023

The Engineering Work Package and Deliverable Package have the same functions. For example, you can create the same work packages in each tab, and then group them so they roll up differently. You can choose to define and group the work packages based on your business process.

You can add, edit, and delete engineering work package and deliverable package items.

The work package grid shows the aggregated work package data for all scope items associated to the work packages on the project. When you add or remove a scope item from a package, the work package summary information is updated. When you update a scope item's hours, dates, or claiming, the summary information is also updated to reflect the changes.

Data validations are built into a work package's summary information for percent complete, hours, and dates. When a scope item associated with a package has missing or null values for hours or dates, a warning icon shows next to the values that depend on the missing or null values to calculate. For example, if a scope item has the MHrs null due to a missing CE MHRs/qty unit rate, the warning icons show in the % Complete, CE total MHrs and Earned MHrs. You can hover over the warning icon for more information.

	pelterns > Configure w	ork packages				ENGINEERING WORK PAC	KAGE DELIVERABLE					
•	e 🛞											0 0
	*Display ID 🚽	*Description	Construction need by date	Discipline	8 of scope items 🔶	% Complete	CE total MHrs	Earned Mires	Forecast remaining MHrs	Planned start	Planned finish	Current start
)	Process	Process Package	07/28/2023	Process	4	52.50 📥	2,500.00 📩	1,312.50 📥	1,187.50	12/20/2022	07/27/2023	12/22/2022
	Mechanical	Mechanical Package	08/31/2023	Mechanical	1	0.00	1,667.00	0.00	1,667.00	05/23/2023	05/30/2023	05/23/2023
	Pieios	Piping Package	09/01/2023	Piping	1	0.00	2,778.00	0.00	2,778.00	05/23/2023	06/09/2023	05/24/2023

3.18.1 Considerations

You must have the applicable permissions in Engineering.

3.19 WORK PACKAGES OVERVIEW PAGE

The Work packages Overview page provides transparency of various work package related items. You can open a work package overview page by clicking an Engineering or Deliverable work package in Scope Items > Actions > **Configure work packages**.

The table below is an overview of the Work and Deliverable work package overview page:

	Title	Description
1	Overview of test package	View and edit the current work package attributes.
2	% Complete	% complete is based on the scope item hours and earned progress on scope items within the work package. ((Earned Qty x CE MHRs ÷ Unit) ÷ CE Hours).
3	Hours	 CE - Sum of the scope item man hours for all scope items within a package (Scope Item Qty x CE MHRs ÷ Unit). Earned - Sum of the scope item earned hours for all scope items within a package (Earned Qty x CE MHRs ÷ Unit). Remaining - Sum of the scope item forecast remaining man hours for all scope items within a package (CE Hours - Earned Hours) if Control integration is off and ((Scope Item Qty - Earned Qty) x CE MHRs ÷ Unit) if Control integration is on.
4	Dates	Start dates show the earliest date, and

Overview - Work package overview page

Overview - Work package overview page (continued)

	Title	Description
		finish date will show the latest date from the related scope items.
5	Milestones	When the Project Settings - Dates setting is configured with Scope Item/Milestone, the milestones window will show. You can use the Dates Chooser icon to toggle between the following dates: • Planned start/finish • Current start/finish • Actual start/finish • Completion
6	Remaining steps	View non-completed steps and their percent complete for all related scope items to the package. Remaining steps will be shown ascending based on step order.
7	Teams	Shows all teams associated to the work package and the teams' percent complete. The teams' percent complete is based on scope item hours and earned progress the team is assigned to on the scope items within the work package (Earned Hours ÷ Scope Item Hours). An unassigned team will show for scope items that does not have a team assigned.
8	Gantt	List of scope items with their related work packages. In the Gantt chart, you can view the start and finish dates for the scope items within the work package. You can use the Dates Chooser icon to toggle between the following dates: • Planned start/finish • Current start/finish

Overview - Work package overview page (continued)

Title	Description
	Actual start/finish
	When the Project Settings, Dates setting is

configured with Scope Item/Milestone, you can expand the scope items and view the milestone dates below the scope item.

			OVERVIEW										
Overview of test package	0	% Complete	Hours	-3-		Dates	4		N	Vilestones	6		
Type	* Display Id								- 11				
Deliverable package	▼ test					Planned start	05/22	/2023	- 11 -		Current start	Current fir	ais.
* Description	Activity code					Planned finish	07/27	/2023		FC-Issue for Con.	04/03/2023	06/30/203	23
test package	ScheduleActivity1	11 6 2 94	2,417		0.194	Current start	04/03	/2023		FIR-Issue for Inte.	05/29/2023	06/16/203	23
Notes		11.63%	hrs		2,100 hrs	Current finish	10/31	/2023		FR-Issue for Revi.	06/19/2023	10/31/203	23
				281		Actual start	05/23	/2023	-11-				
Construction need by date	Discipline		CE	Earned	Remaining				-11				
07/01/2024	Electrical	*				Actual finish			_				
Remaining steps 6	Teams 7	Save Scopeltern	Lead Discipline	Current start	Current finish	Apr May	Jun	Jul Au	Sep	Oct Nov	Dec Ja	n Feb	
Step 1	Process Design Team	↑ v <u>154896-Mechanical Example</u>	Mechanical	05/23/2023	06/30/2023		_						
Issue for Construction Scope item: Mechanical Exa Assigned team: Assigned to:	1 scope items	.00%	Process	04/03/2023	10/31/2023					-			
Issue for Internal Review Scope Item: Process Exampl Assigned tam: Process Engl	Process Engineer Team 1 scope items 6.2	25%				I							
Review Issue for Review Scope item: Process Exampl Assigned team: Process Engl	Unassigned 1 scope items 0.0	10%											

In the scope item list, when you click on a scope item link, the Edit scope item slide-out panel opens. You can view and make changes to scope items. When changes are saved, the overview page is updated to reflect the new changes.

plete	dit scope item					
S	ummary					
	D		* Description		* Claiming scheme	
	154895		Process Example - Doc 4		Process CS	*
0	Scope item qty	i	* Scope item UoM		Lead Discipline	
	1.00		Ea	-	Process	
	DB qty		Deliverable qty		Deliverable UoM	
	1.00		0.00		Sht	*
	eliverable package		Engineering work package		Area	
n	test	*	Process	•	Select one	*
5	Segment		Turnover		Work classification	
-Process Exa	Select one	*	Select one	•	Select one	*
R	lesources 🛆					
U	lser defined					
D	lates					

3.19.1 Considerations

You must have the applicable permissions in Engineering.

3.20 CONFIGURE PROJECT VALUES

You can define project-specific values to assign to scope items in the project. Types of project values are construction work areas, work classifications, and deliverable packages. You define the values for each of these. For example, a construction work area might be named Main St NE bridge, a work classification might be named Civil, and a deliverable package might be named Main St NE bridge access and laydown.

You can configure project values manually from the Scope items page or by importing a Microsoft Excel file.

3.20.1 Steps

To add a project value manually:

1. From the Scope items page, click **Actions**, and then select **Configure project values** from the drop-down menu. The Configure project values dialog box opens.

28 Enter ID Enter description I Enter activity co 0 01 09L D09 Minnesota Avenue Laydown 09L	de 🛛 🖉
	\otimes
02 10L D10 Deanwood Laydown 10L	\otimes
03 11L D11 Cheverly Laydown 11L	\otimes
O4 12L D12 Landover Laydown 12L	\otimes
05 13L D13 New Carrolton Laydown 13L	\otimes
06 CBL Cheverly Bridge Laydown CBL	⊗ .
Vork classification Jeliverable package	

- 2. Click the type of project value you want to add (Construction work area, Work classification, or Deliverable package).
- 3. In the table, enter an ID and description for the project value.
- 4. You can also enter an activity code. Activity codes are optional to associate with project values, but they are used to run the Engineering Activity Report.
- 5. Click the Add icon.
- 6. Click Close.

3.21 LOCK AND UNLOCK SCOPE

On the Scope items page, you can lock and unlock the scope on a project.

When the scope is locked for the first time on a project, the current Scope item qty value is automatically used as the OB qty value for each existing scope Item in the project. When you update the scope item quantity while the scope is locked, a cause code is required. Any new scope items added after the scope is locked do not have an OB quantity.

When the scope is unlocked, then the OB qty field is editable on all existing scope items in the project.

To lock or unlock the scope from the Scope items page, click **Actions**, and then select **Unlock Scope** or **Lock Scope** from the drop-down list.

						SCOPE ITEMS	AUDIT LOG
A	ctions	•	•				
		Configure claiming schemes			*Description	*Claiming	Claiming scheme escription
(Configure project values Unlock Scope Role assignment				Piping Example	Piping	Piping
l					Mechanical Example	Mechanical	Mechanical
F					Process Example - Do	Process CS	Process CS
	~		154894		Process Example - Do	Process CS	Process CS
	~		154893		Process Example - Do	Process CS	Process CS
	~		154892		Process Example - Do	Process CS	Process CS

3.21.1 Considerations

- The scope is unlocked by default for new projects.
- To lock the scope, you must have the permission Lock project.
- To unlock the scope, you must have the permission Unlock project.

3.22 ROLE ASSIGNMENT

3.22.1 Summary

The Role assignment dialog box lets you create roles by resource type, and assign teams and users to roles. You can create roles for any resource type added to your project. When you add a claiming scheme to a scope item, a default role is automatically added for the associated resource type and claiming scheme if a role does not already exist.

The Role assignment dialog box shows the Current and future assignments tab by default when opened. On this tab, you can add roles and assign teams and users. There is also a User assignment history tab, which shows a record of all user assignment changes made.

The Current and future assignments tab shows counts of current assignments to scope items and steps.

After a role is created, you can assign it to a scope item in the Resources section of the Add and Edit scope items slide-out panels and in the Resource Assignments sheet of the Microsoft Excel import template. When you assign a role to a scope item, the Planned team and Assigned user fields are automatically populated with assignments from the Role assignment dialog box and become read-only.

3.22.2 Considerations

- To see role assignments, you must have the permission View role assignment. To perform actions on role assignments, you must have the permissions Edit role assignment, Add role assignment, and Delete role assignment.
- When you assign a role to a scope item, the role, planned team, and assigned user are inherited by the claiming steps. You can still update the role on individual steps if the step has not been claimed.
- You can delete a role only if it is not assigned to a scope item.
- When you update a planned team or assigned user on a role, those fields are updated on all incomplete scope items and steps with that role assigned. Any completed roles with the role assigned keep the previous planned team and assigned user.
- There is no limit on the number of roles that can be created for a resource type.
- For each existing role, you can add a future user by clicking the **Add future user** icon next to the role name. This allows another user to be assigned on a role on a future start date. The start date defaults to today's date, and can be updated to a future date. On the start date, the current user is replaced by the future user and each incomplete step is updated with the future user.
 - After a future user is added to a role, the end date of the current user on the role defaults to the day before the future user's start date.

	Resource type / Role	Planned team	1	Assigned user		Start date	End date
Ð	Drainage Engineer						
2	Drainage Engineer 1	Water	Θ	Brian	Θ	06/07/2021	06/28/2022
	Drainage Engineer 1	Water	Θ	Dominic	Θ	06/29/2022	
Ð	CES						

• Each role can have only one future user at a time.

3.22.3 Steps

To assign a role, planned team, and user to a resource type:

- 1. From the Scope items page, click **Actions**, and then select **Role assignment** from the drop-down menu. The Role assignment dialog box opens to the Current and future assignments tab.
- Click the Add role icon next to a resource type. A new row is created below with a default name.
 To change the name, click on the role name, edit the name, and then press Enter.

lole i	assignment				IT AND FUTURE SIGNMENTS	USER ASSI HISTO					
	Resource type / Role	Planned team	Assigned user	Start date	End date	Total scope items	Scope items remaining	Total steps	Steps remaining	Note	
€	Systems Communications										
۶.	Systems Communications 1			06/07/2021		0	0	0	0		8
۲	Structural Engineer										
٨	Structural Engineer 1			06/07/2021		0	0	0	0		8
€	Architectural Landscaping										
٨	Architectural Landscaping 1			06/07/2021		0	0	0	0		8
€	Systems Traction Power										
٨	Systems Traction Power 1			06/08/2021		0	0	0	0		8
٠	Systems FLS										
٨	Systems FLS 1			06/07/2021		0	0	0	0		8
٠	Drainage Engineer										
٨	Drainage Engineer 1	Water 😑	Brian 😑	06/07/2021		0	0	0	0		8
€	CES										
2	CES 1			06/11/2021		0	0	0	0		8

- 3. Click in the Planned team field for the new role, and then select a team from the drop-down list. Any team added to project settings is available to be selected.
- 4. Click in the Assigned user field, and then select a user from the drop-down list. Any user with access to the project is available to select.
- 5. Click Save.

3.22.4 Related links

For more information about assigning a resource type to a scope item, see <u>Scope item resources</u>.

3.23 ASSOCIATE DOCUMENTS

You can map scope items to documents in the InEight Document documents register to support status and progress reporting on deliverables.

Go to project > Engineering > Scope Items. Click Actions, and then select Associate documents.

					SCOPE ITEMS	AUDIT LOG
Actions	•	• C	\otimes			
Associa	ite docum	nents				🖄 Scope is un
-	re claimin re work p	ng schemes ackages	1	*Description	*Claiming	Claiming schem description
Configu	re project	values		ID * Description	104783IND	Indirects
		g MHrs/Unit		е	104783IND	Indirects
Lock So Role as:	signment			d	104783IND	Indirects
	Run report			PIDS CO Sheladia STR	PIDS CO Building 3 Step	PIDS CO Building
~		123798		PIDS CO Sheladia STR	PIDS CO Building 3 Step	PIDS CO Building
~		123797		PIDS CO Sheladia STR	PIDS CO Building 3 Step	PIDS CO Building
~		🗅 113859		PIDS CO Sheladia EW	PIDS CO Systems Proje	PIDS CO System
~		🗅 113858		PIDS CO Sheladia AR	PIDS CO Building 3 Step	PIDS CO Building
~	0	🗅 113857		PIDS CO Sheladia AR	PIDS CO Building 3 Step	PIDS CO Building
~		113856		PIDS CO Sheladia AR	PIDS CO Building 3 Step	PIDS CO Building

The Associate documents page opens.

Scope	items					Auto hide mapped	Q	Documents						O Auto hi	de mapped
х м	ap scope it	em 🖉						23 M	p documer	810					
		ID	Description	Document	% Complete	Lead discipline	ţ.			Document		Title	Scope item	Revision	Status
0	8-	259214	ID * Description		50.00	Indirects	^	0	*	22222		ADDED	6	A	AB
0	*	249207	e	3	0.00	Indirects		0	*	22222		ADDED	5	20	AB
0	8-	249206	d		0.00	Indirects		0	8	22222		ADDED	6	10	PD
0	*	123799	PIDS CO Sheladia	2	55.00	Building		0	8	22222		ADDED	6	20	PD
0	8-	123798	PIDS CO Sheladia		87.50	Building		0	\$ \$	884FSE08-48EF-400	2	IWP-789-80672	5		IFI
0	8-	123797	PIDS CO Sheladia		47.50	Building				A11111		a11111		A	IFR
0	8-	113859	PIDS CO Sheladia		0.00	Systems				A1112		+A1111		D	AB
0	8-	113858	PIDS CO Sheladia		47.50	Building				A1112		+A1111		D	AB
0	8-	113857	PIDS CO Sheladia		47.50	Building				A1112		+A1111		D	AB
0	8-	113856	PIDS CO Sheladia		47.50	Building				A1113		+A1111		D	AB
0	8-	113855	PIDS CO Sheladia		24.84	Building				A1114		+A1111		D	AB
0	8-	113854	PIDS CO Sheladia		24.84	Building		0	*	AUTOMATIONTEST.	-	Aut0mationTest_20	<u>6</u>	A	PLH
0	8-	113853	PIDS CO Sheladia		24.84	Building		0	8	AUTOMATIONTEST	-	AUTOMATIONTEST	6	A	PLH
0	8-	113852	PIDS CO Sheladia		0.00	ESDC		0	*	AUTOMATIONTEST.	-	AUTOMATIONTEST	6	A	PLH

Scope items show on the left panel and documents show on the right panel. You can map multiple documents to a single scope item or map multiple scope items to a single document using the icons at

the top right of the page. In the Documents panel, you can click the **Document number** link to open and view the document in Document.

3.23.0.1 Sync documents

In the Documents panel, click the **Sync** button to bring in any added and updated documents from Document. The Last synced status is shown on the lower right side of the panel. When mapped documents are deleted in Document, a warning shows at the top of the page showing the number of documents that no longer exist.

		Auto hide mapped	Documents	
move	mapping			
	Document number	Title	Scope item ID	Scope item description
	cccccc	ccccc	221641	RAVALIORDER_989
	cccccc	ccccc	221640	RAVALIORDER_988
	cccccc	CCCCC	221639	RAVALIORDER_987
	cccccc	00000	221638	RAVALIORDER_986
	cccccc	00000	221633	RAVALIORDER_981
	cccccc	00000	221632	RAVALIORDER_980
	CCCCCC	CCCCC	221631	RAVALIORDER_979
	CCCCCC	00000	221630	RAVALIORDER_978

You can click **Remove mappings** to view the deleted documents and remove.

3.23.0.2 View associated documents

Click the count number link to view the number of associated documents for scope items and documents in the Document count or Scope item count column.

Scope	e items			C	Auto hide mapp	ed Q	Docur	ments		Auto hide mapped Q		
N SC	lap scope it	em 🔗					2% M	ap docume	nt 🖉 I 🕠			
		ID =	Descrip 🚽	Document count 🚽	% Complete 🚽	Lead di			Document	Title	Scope item count 🚽	Revision
۲	26	113849	PIDS CO KIE	5	36.00	Syster		24	00KM06082021-010	Build Acceptance Docu	8	Α
0	**	113848	PIDS CO KIE	5	100.00	Syster		8	00KM06112021-007	21.05.00 Build Acceptan	8	с
0	**	113847	PIDS CO KIE	1	47.50	Syster	0	8	00KM06112021-008	21.05.00 Build Acceptan	8	с
0	**	113846	PIDS CO KIE	5	47.50	Syster		8	00KM06112021-009	21.05.00 Build Acceptan	2	с
0	*	113845	PIDS CO KIE	1	47.50	Syster		**	00KM06112021-010	21.05.00 Build Acceptan	8	с
0	**	113844	PIDS CO KIE	5	52.13	Syster	0	23	00KM06242021-002	Role Test 2	8	A
0	**	113843	PIDS CO KIE	5	0.00	ESDC		83	00KM07152021-003	21.05 Regression VDR B	8	A
0	**	113842	PIDS CO KIE	5	52.13	Indires	0	84	00KM09162020-001	00KM09162020-001	2	A

The Associated Items window shows the associated items. Click **View in grid** to see the associated items in the Documents grid. Click the **Document number** link to open the associated document in Document.

	×
Associated Items	View in grid
Document number	Title
00KM06082021-001	Build Acceptance Vendor Data Single Upload 1
0001-TE-1028	Tyler Upload Document 10/28
0001	DOC 001_TEST
111111111111111111111111111111111111111))))))))))))))

3.23.0.3 Unlink mappings

Click the **Unlink** icon to remove mappings for scope items and documents. Select the mapped item, and then click **Unlink**. In the Remove mapping dialog box, you can select all items or multiple items to unlink.

Scope	e items			O Auto	hide mapped Q Docum	nents	Auto hide	mapped C
					2% Ma	p document 🔗 📔 🚺		
		ID	Remove	mapping				×
	8	270794		Document number	Title	Scope item ID	Scope item description	
	R	270793		SINGLEDOC1	testing doc	270791	Test2	Â
۲	*	270791		SBXTESTING_1	SBXTESTING_1	270791	Test2	
	22	270790		RS12102021.002XL	RS12102021.002xl	270791	Test2	
				RS12102021.001XL	RS12102021.001xl	270791	Test2	
	**	259214		RS09192023.004	RS09192023.004	270791	Test2	
	**	249207		RS09192023.003	RS09192023.003	270791	Test2	
	**	249206		RS09192023.002	RS09192023.002	270791	Test2	
	**	123799		RS09112023.003	RS09112023.003	270791	Test2	
	22	123798						
	**	123797					Cancel	Confirm

3.23.1 Considerations

- To enable Document integration, you must first setup the project in InEight Platform > Suite Administration > Application integrations.
- You must enable Document integration in Design > Settings > Engineering > **Documents** to access Associate documents.
- You must have the required permissions in Engineering for document associations.
- To view documents in Document, you must have the applicable Document permissions.

3.23.2 Steps

Map documents to a scope item

- 1. Click Map many documents to single scope item in the upper right corner.
- 2. In the Scope items panel, select the scope item.
- 3. In the Documents panel, select the document or documents to map to the scope item, and then click **Map document**.

Map scope items to a document

- 1. Click Map many scope items to single document in the upper right corner.
- 2. In the Documents panel, select the document.
- 3. In the Scope items panel, select the scope item or items to map to the document, and then click **Map scope item**.

NOTE A green Mapped icon is shown for mapped items.

Unlink associated items

- Select Map many documents to single scope item to unlink documents from a scope item, or Map may scope items to single document to unlink scope items from a document.
- 2. Select the scope item or document.
- 3. Click the **Unlink** icon. The Remove mapping dialog box shows.
- 4. Select the item or items you want to unlink, and then click **Confirm**.



CHAPTER 4 – QUANTITY FORECASTING MODULE OVERVIEW

4.0.1 Summary

The Quantity forecasting module lets you maintain a continuous integration of quantities, man-hours, and schedule for design-build and EPC work. Quantity forecasting lets you configure a project to track quantities that are being driven by estimate, design, and construction phases on a project.

Quantity forecasting is integrated with the InEight Control and InEight Plan applications, which allows for seamless transition of data between the systems.

4.1 QUANTITY ITEMS

4.1.1 Summary

The Quantity items page contains the main grid for managing all quantity items and progressing quantities on a project.

The following table and image give an overview of each section of the Quantity items page and what can be performed there.

	Title	Description
1	Actions menu	Do any of the following: • Get Control unit rates • Lock budget • Quantity change notes
2	Quantity item buttons	Add, edit, and delete quantity items.
3	View	Select, save, and share views.
4	Upper right toolbar icons	Data conflicts show whether conflicts exist, Import and Export lets you import and export sets of data, Row density lets you adjust the spacing of grid rows, and Find lets you search scope items.
5	Quantity items	Grid showing quantity items and related information organized by column.
6	Column chooser	Select the columns to show or hide.

Overview - Quantity items page

	1	2			QUANTITY ITEMS	ROLLUP VIEW	AUDIT L	OG			A View: Unsave	d (Default)
Ac	tions 🔻	€ 2 8									L 🗠 🕇 🕽	[] t≡ Q
)	*ID	Description 5	"UoM	Forecast (TO) qty	*Discipline	*Design element	*Account code	Account code escription	*WBS phase code	WBS description	Quantity driver	CB qty
)	8087	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	177.70	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	120.00
)	8086	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	164.50	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	294.00
)	8085	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	77.80	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	51.00
)	8080	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	433.20	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	14.00
)	8079	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	297.30	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	344.00
1	8078	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	55.10	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	82.00
)	8076	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	26.50	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	14.00
)	8071	Slab on Grade 0-1' Thick - Place / Finish / Cure-02B-CT	CY	177.70	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	93.00
)	8070	Slab on Grade 0-1' Thick - Place / Finish / Cure-02B-CT	CY	164.50	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	294.00
)	8069	Slab on Grade 0-1' Thick - Place / Finish / Cure-028-CT	CY	77.80	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	51.00
5	8064	Slab on Grade 0-1' Thick - Place / Finish / Cure-028-CT	CY	433.20	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	14.00
	8063	Slab on Grade 0-1' Thick - Place / Finish / Cure-028-CT	CY	308.10	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	359.00
5	8062	Slab on Grade 0-1' Thick - Place / Finish / Cure-028-CT	CY	55.10	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	82.00
)	8055	Slab on Grade 0-1' Thick - Place / Finish / Cure-03A-HR.,	CY	1,264.20	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	998.00
)	8052	Slab on Grade 0-1' Thick - Place / Finish / Cure-03A-HR	CY	11.10	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	13.00
1	8049	Slab on Grade 0-1' Thick - Place / Finish / Cure-038-HR	CY	1,264.20	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	998.00
1	8047	Slab on Grade 0-1' Thick - Place / Finish / Cure-038-HR	CY	273.00	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Mass Slabs - P/F/C	Component Qty	7.00

4.1.2 Considerations

You must have the permission View quantity item and rollup.

4.2 ADD A QUANTITY ITEM

4.2.1 Summary

You can add a quantity item manually in the Quantity items page.

The Add quantity item slide-out panel contains the Details and Quantities tabs.

On the Details tab, the fields required to make a quantity item depend on how your project is set up. Whether each field is required or must have a unique value is set in the Fields and component integration subtab of Quantity forecasting project settings.

When a quantity item is added, and the quantity item is associated to a cost item, the quantity is sent to InEight Control. Any quantity where the UoM does not align between a cost item and a quantity item is not sent to Control.

On the Quantities tab, you can set the Quantity driver for the quantity item. The quantity driver designates which design stage drives the quantity item's forecast (TO) qty. When you select a stage as the quantity driver, the forecast (TO) qty is automatically updated with the quantity maintained on that stage. Design stages are used to group and collect quantities as the design changes. Design stages are created at the organization level and added at the project level.

You are not required to set the quantity driver when adding the quantity item, and can change it later. The quantity driver is set to CB qty by default. For more information, see <u>Quantity driver</u>.

4.2.2 Considerations

You must have the permission Add quantity items.

4.2.3 Steps

To add a quantity item:

1. Click the **Add quantity item** button in the upper left. The Add quantity item slide-out panel opens.

Ac	tions 👻	<u>o</u> , 🗹 😣										▲• 🔻 🗘 🕻	3 💷	Q
	*ID 👘	Description	'UoM	qty	*Discipline	Tesign element	*Account code	Account code escription	*WBS phase code	Add quantity item				:
5	8087	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	177.70	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	→	DETAILS	QUANTITIES		
)	8085	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	164.50	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	ID.		Description		
)	8085	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	77.80	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077			1		
)	8080	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	433.20	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	* Account code		* Design element		
)	8079	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	cr	297.30	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077			Select one	*	
ו	8078	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	55.10	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	* WBS phase code		* Discipline		
)	8076	Slab on Grade 0-1' Thick - Place / Finish / Cure-02A-CT	CY	26.50	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1"T	1077	Select one	*	Select one	*	
)	8071	Slab on Grade 0-1' Thick - Place / Finish / Cure-028-CT	CY	177.70	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	* UoM		* Ground		
)	8070	Slab on Grade 0-1' Thick - Place / Finish / Cure-028-CT	cr	164.50	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1'T	1077	Select one	-	Select one	*	
)	8069	Slab on Grade 0-1' Thick - Place / Finish / Cure-028-CT	CY	77.80	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Work type		Cost segment		
	8064	Slab on Grade 0-1' Thick - Place / Finish / Cure-028-CT	CY	433.20	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Select one	*	Select one	*	
)	8063	Slab on Grade 0-1' Thick - Place / Finish / Cure-028-CT	CY	308.10	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Quantity source		Construction segment		
)	8062	Slab on Grade 0-1' Thick - Place / Finish / Cure-02B-CT	CY	55.10	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Select one	*	Select one	*	
)	8055	Slab on Grade 0-1' Thick - Place / Finish / Cure-03A-HR	CY	1,264.20	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	* Area		* System		
)	8052	Slab on Grade 0-1' Thick - Place / Finish / Cure-03A-HR	CY	11.10	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	Select one	*	Select one	*	
)	8049	Slab on Grade 0-1' Thick - Place / Finish / Cure-038-HR	CY	1,264.20	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077	* Subsystem		* Turnover		
	8047	Slab on Grade 0-1' Thick - Place / Finish / Cure-038-HR	CY	273.00	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077				_	_

- 2. Fill in any required fields, as indicated by an asterisk.
- 3. Click Add.

4.3 QUANTITY DRIVER

4.3.1 Summary

The quantity driver designates which design stage drives a quantity item's forecast (TO) qty. Design stages are used to group and collect quantities as the design changes. Design stages are created at the organization level and added at the project level.

You can update the quantity driver using the Edit quantity item slide-out panel, the Quantity items grid, or the import process. When you select a stage to be the quantity driver, the Forecast (TO) qty field is automatically updated and a blue pushpin icon is added to the design stage.

When the quantity is updated and the quantity item is associated to a cost item, the quantity is sent to InEight Control. Any quantity where the UoM does not align between a cost item and a quantity item is not sent to Control.

You can set the quantity driver to be the CB quantity, any of your project's design stages, or component quantity. Component quantity is the sum of quantities of components from InEight Plan associated to the quantity item.

	*ID =	Description 🔫	"UoM 👳	Forecast (TO)	Quantity driver 👘	CB qty 👘	30% Qty 👘	90% Qty 👘	Design Complete	Component Qty	Installed qty
8	45609		CY	158.00	Component Qty					¥ <u>158.0</u>	0.00
8	45605		Ea	24.00	Component Qty				×	¥ 24.0	0.00
8	45604		UF	19.37	Component Qty					¥ <u>19.3</u>	0.0
8	45603		UF	13.73	Component Qty					¥ <u>13.7</u>	. 0.0
	45602		Ea	1,905.00	90% Qty	0.00		4 1,905.00		1.905.0	. 0.0
8	45601		SF	20.16	Component Qty					¥ 20.1	0.0

4.3.2 Considerations

- You can select Component qty as the quantity driver only if the Design Complete check box is selected for the quantity item.
- You can set a stage as the quantity driver even if no quantity is maintained on that stage. In this case, the Forecast (TO) qty field is set to 0.00.

4.4 DATA EXPORT

4.4.1 Summary

You can export quantity items in the Quantity forecasting > **Quantity Items** page using the export tool. You can export all items or selected items using the tool.

After you start the export, the Audit log > **Export History** page opens to show you the export status and history information. The export status shows as *In progress*. The export processes run in the background, and when completed, the status changes to *Completed* and the Download export file icon becomes available.

You can then download the file by clicking the **Download export file** icon. The file is downloaded as a Microsoft Excel file to your Downloads folder.

4.4.2 Considerations

You must have View quantity forecasting settings permission.

Other users of Design with the same permission can download the file.

The file will be available for 60 days. After 60 days, the Download export file icon is disabled.

4.4.3 Steps

To export all quantity items:

1. Click the **Export quantity items** icon, and then select **Data export**.

NOTE To export selected items, click the check box next to the item or items, and then select **Data export**.

			QUANTI	TY ITEMS F	OLLUP VIEW	AUDIT LOG	\ \	/iew: Default	•
A	ctions 🔻 🕒	r 8						🔻 D D	¢≡ Q
	*ID	Description	*UoM 👳	Forecast (TO) qty	*Discipline	*Design element 👘	*Account code 👘	Template	*WBS phas code
2	2282168	1	PLS	1.00	Removals and Demo	Operational Support	50.03	Data export	2587
0	2282167	2	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
)	2282166	3	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
)	2282165	4	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
2	2282132	5	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
2	2282131	6	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
	2282130	7	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
)	2282129	8	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
)	2282128	9	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
	2282127	10	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587

The Audit log > Export History page opens.

QuantityItem		File name	Status	Total record count	Exported by	System time stamp
	*	QuantityItem04182023073957	O In progress	0	Julio Salguero	04/18/2023 12:39:00 PM
ntegration	*	QuantityItem04182023040922	Completed	39,864	Jakob Sjuts1	04/18/2023 09:09:00 AM
mport History	*	QuantityItem04182023031201	Completed	39,864	Jakob Sjuts1	04/18/2023 08:12:00 AM
Export History	*	QuantityItem04182023025824	Completed	1	Jakob Sjuts1	04/18/2023 07:58:00 AM
Jnassigned components	*	QuantityItem04182023025617	Completed	39,864	Jakob Sjuts1	04/18/2023 07:56:00 AM
	*	QuantityItem04182023024543	Completed	39,864	Jakob Sjuts1	04/18/2023 07:45:00 AM
	*	QuantityItem04182023024325	Completed	39,864	Jakob Sjuts1	04/18/2023 07:43:00 AM

2. In Export History, click the **Download export file** icon to download the file.