

PLANNING, SCHEDULING & RISK

DESIGN USER GUIDE

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CHAPTER 1 – INEIGHT DESIGN OVERVIEW

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.

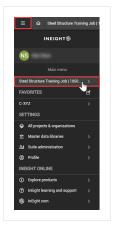
☰ ☆ Welcome			0 4 <mark>°</mark> 8 🖲 III
INEIGHT®		View: Contractor (Default)	• 🖄 🖓 🛈
kl	🕈 Map 🛛 🍸 C	🔗 My links	O Photo
Main menu FAVORITES Ef Root Organizations > SETTINGS >	Az 51 Paradise valley Scottsdale Venix Ven	Add links	Add image
INEIGHT ONLINE () Explore products >		(a) Tasks (c) Tasks	Tasks
 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									()	Q
	ID 🕇 👘	Name	Stat	Organization	Created by	Created on	Original contract	Contract number	Date project start	
	1000	Management in the second se	-	Bar Systems	frager, balling the					
		delite the set	-	And Toppensing	2000 C					
			-	And Supervision						
		1000	-	they begin interest	description in the second					
		from and the st	-	Rec Topromites						
		francis (-	Rectigeneets over the	Capitor Street Products	-				
		freed in	-	figuration cost? by cost? by	Capito anna Annana	-				
		Trans. III	-	testi ba testi ba testi ba	Contraction States	-				
		francisk (-	for ignition cost in	Construction designs					
		term.ite		sector, Mr. Synault. Deltared						
		10.00.000	-	Rear Toppensition						
		the loster of	-	Nur lageration	Taxat TaxAlipus					
			-	Red Supervision						
		Same Francis	-	they begin the start of the						
		100000	-	Non-Trapensition						
		1.0.00	-	Rectingentities of						
		scill-freeze	-	Rectigeneties 1						

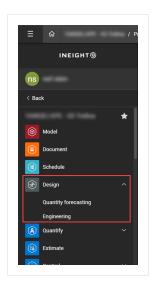
If your project is not shown on the initial screen, you can search by clicking the **Search** icon in the upper right. This search function searches all terms in all columns.

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

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

CHAPTER 2 – ADMINISTRATION OVERVIEW

You can manage settings for organizations and projects in the Engineering and Quantity Forecasting modules in Design.

- **Organizational settings** Settings configured are inherited by projects within the organization. You can configure organizational settings in Main menu > <organization> > Settings > **Design**.
- **Project settings** Settings configured at the project level are applied throughout the project. You can configure Engineering settings for your project in Settings > **Design**.

2.1 ORGANIZATIONAL SETTINGS FOR ENGINEERING

As an administrator, you can configure settings for the Engineering module at the organization level. Settings at the organization level are inherited by associated child organizations and projects.

The organization Engineering settings gives you access to the following configurations:

- Project values
- **Disciplines**
- <u>Resource types</u>
- Milestones
- Design elements
- Schedule
- <u>Teams</u>
- <u>Resources</u>

- Account code set
- Cause codes

You can manage engineering settings for your organization in Settings > Design > Engineering.

For general information about InEight cloud platform settings, see Organization Settings.

2.1.1 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.2 PROJECT VALUES

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.

Project values Disci	plines Resource types Milestones	Design elements Schedule	Team
Project values			
Select which project values are to be used in engineering scope item	15.		
Name	Include	Required	
Area	0	0	
Construction commodity	Θ		
Segment	\odot	0	
Subsystem	\bigcirc	0	
System	\bigcirc	0	
Turnover	Θ		
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.

	40	JANTITY FORECASTING		BINEERING	_				
Project values	Account code set	Resource types	Milestones	Schedule	Teams	Resources	Control settings	Dates	
Project value	es								
Select which project		ed in engineering so	ope items.						
Name								Include	
Area									
Segment								\bigcirc	
Subsystem								O	
System								\bigcirc	
Work classification									

2.2.1 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.3 DISCIPLINES

You can define disciplines to associate with resource types and claiming schemes in the Engineering module. Examples of disciplines are architectural, civil, or drainage.

You can manage the disciplines for your organization in Settings > Design > Engineering > Disciplines.

Project values	Dis	ciplines	Resource types	Milestones	Design elements	Schedule	Teams	Resources	Account code set	Cause cod
[Discip	lines								
		Position	*ID	*Description						
		36	Enter ID	Enter Description						
		01	А	Architectural		\otimes	*			
		02	В	Building		\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	-			

2.3.1 Steps

You can do any of the following actions:

- Add Enter an ID and Description, and then click the Add discipline icon.
- Edit Click in the fields, and then enter text.
- **Remove** Click the **Remove discipline** icon to the right. You cannot remove a discipline assigned to a resource type or a claiming scheme.
- **Sort** Select a discipline, and then click the up and down arrows to the right of the table to adjust the position of the discipline.

When disciplines are created, they become available to add in resource types and claiming schemes for projects in the organization. For more information, see <u>Resource types</u> in project settings and <u>Configure claiming schemes</u>.

2.3.2 Considerations

- You must have Level 3 Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.
- Disciplines must be added to create resource types.

2.4 RESOURCE TYPES

Resource types are associated with disciplines and must be added to add claiming schemes to projects. For more information, see <u>Configure claiming schemes</u>. 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. All resource types are automatically inherited to all projects in the organization.

You can manage resource types in your organization in Settings > Design > Engineering > **Resource types**.

values	Disciplir	Dee Dee	ource types	Milestones	Design elemen	te C.	hedule	Teams		Resources	Account code set	Cause cod
values	Discipii	105 100	ource types	willestones	Design elemen	15 31	neuule	Teams		Resources	Account code set	Cause cou
Reso	ource t	уре										
	Position	*ID	*Description	1	*Discip	line						
	110	Enter ID	Enter Desc	ription	Select	discipline	-					
	01	ARL	Architectural	Landscaping	Archite	ctural		\otimes	-			
	02	ARH	Architectural	HVAC	Archite	ctural		\otimes				
	03	BVS	Building Vert	ical Structures	Buildin	9		\otimes				
	04	BGS	Building Stat	ons	Buildin	g		\otimes				
	05	BGE	Building Engi	Deer	Buildin	9		\otimes				
		BOL				-						
	06	BGD	Building Desi	gner	Buildin	9		\otimes				
	07	CES	CES		CES St	ructures		\otimes				
	08	CEN	Civil Enginee	r	Civil			\otimes				
									*			

2.4.1 Steps

You can do any of the following actions:

- Add Enter a resource ID, Description, select a discipline from the Select discipline drop-down list, and then click the Add resource icon.
- **Remove** Click the **Remove resource type** icon to the right. You cannot remove a resource type that has been assigned to a project.
- Edit Click in the fields, and then enter text.

• **Sort** - Select a resource type, and then click the up and down arrows to the right of the table to adjust the position of a resource type.

When resource types are created, they become available to add to claiming schemes for projects in the organization.

2.4.2 Considerations

- You must have Level 3 Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.
- Disciplines must be added to create resource types.

2.5 MILESTONES

Milestones are attributes for claiming schemes. In projects, you can define completion milestones to be assigned to claiming scheme steps. Examples of completion milestones are Issue for Review or Issue for Construction. At the project level, all milestones from the parent organization are automatically inherited and you can assign or remove milestones as needed.

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

You can manage Milestones for your organization in Settings > Design > Engineering > Milestones.

Project values	Dis	ciplines	Resource types	Milestones Design element	nts Schedule	Teams	Resources	Account code set	Cause codes
	Miles	tones							
		Position	*ID	*Description					
		24	Enter ID	Enter milestone					
		00	SC	Scope Complete	\otimes	•			
		01	IFR	Issue for Review	\otimes				
		02	IFC	Issue for Construction	\otimes				
		03	UPH	Uprev/Hold	\otimes				
		04	ITD	Type Selection Submittal	\otimes				
		05	IPD	Prelim Submittal	\otimes				
		06	IID	Interim Submittal	\otimes				
		07	IRD	Final Submittal	\otimes	•			

2.5.1 Steps

You can do any of the following actions:

- Add Enter an ID and Description, and then click the Add milestone icon.
- **Remove** Click the **Remove milestone** icon to the right. You cannot remove a milestone that has been assigned to a project.
- Edit Click in the fields, and then enter text.
- **Sort** Select a milestone, and then click the up and down arrows to the right of the table to adjust the position of the milestone.

2.5.2 Considerations

• You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.

2.6 DESIGN ELEMENTS

Design elements are subdisciplines that you can associate to scope items. Design elements group labor types above account codes for rolling up data. Design elements configured at the organization level are available to all projects in the organization.

You can manage Design elements for your organization in Settings > Design > Engineering > **Design** elements.

roject values	D	lisciplines	Resource types Mi	lestones	Design elements	Schedule	Teams	Resources Account code set	С	ause co
[Desig	gn elem	ents	L						
-									٦	
		ID	lpha *Design element	*UoM	Alternate	system UoM	*EPC	Parent(optional)		
			Enter design element title	Select Uol	-		Select EPC	✓ Select design element p		
		6140	CLOSEOUT	Sht	Sht		Engineering		\otimes	^
		6131	ALARM	Ea	Ea		Engineering		\otimes	
		6141	CM (Sht)	Sht	Sht		Engineering		\otimes	
		6142	CM (SF)	SF	m2		Engineering		\otimes	
		6143	COMMUNICATIONS (Ea)	Ea	Ea		Engineering		\otimes	
		6144	COMMUNICATIONS (LF)	LF	m		Engineering		\otimes	
		6145	COMMUTER RAIL	LF	m		Engineering		\otimes	
		6147	CONCRETE (Sht)	Sht	Sht		Engineering		\otimes	
		6148	CONSTRUCTION QUALITY	MWk	MWk		Engineering		\otimes	
		6149	CONSULTANT	PLS	PLS		Engineering		\otimes	
		6150	CULVERT	SF	m2		Engineering		\otimes	
		6151	CW	Sht	Sht		Engineering		\otimes	-

Steps

You can do any of the following actions:

Add - Enter a unique name, select a UoM, select an associated EPC option (engineering, procurement, or construction), optionally select a parent Design element to group elements together, and then click the Add design element icon. The Alternate System UoM will be automatically populated based UoM selected. You can also use the import process to import Design elements using the Export and Import icons.

- Edit Click in the fields, and then enter text. You cannot edit a design element's UoM when it is assigned to a scope item.
- **Delete** Click the **Delete design element** icon to the right. You cannot delete a design element, or a terminal design element assigned to a scope item. You cannot delete a parent design element when it has other design elements associated with it.
- **Sort** Select the Design element, and then click the up and down arrows to the right of the table to adjust the position of a Design element.

When Design elements are created, they become available to assign to account codes in the organization settings. For more information, see <u>Account code set</u>.

Design elements can be associated to scope items at the resource level for your project. For more information, see <u>Scope item resources</u>.

2.6.1 Considerations

- You must have Level 3 Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.
- The Alternate system UoM field is automatically populated according to the units of measure in the InEight Platform master data library.

2.7 TEAMS

Teams are used to group resources to assign to claiming steps for scope items. Teams are associated with either organizations or vendors. You can manage Teams for your organization in Settings > Design > Engineering > Teams.

Project values		Disciplines	Resource	types Milestones	Desig	jn elements Schedule	Teams Resources	Account o	ode set	Cause code
	Tear	n								
		Position	*ID	*Team	Is Vendor	*Organization	Vendor			
	÷	169	Т99	JRS-Design		S100000 - PKS Inc 🔻	Select Vendor			
		01	T1	KPE - Power Gen		SE2008 - Kiewit Power			\otimes	
		02	Т2	KPE - Water		SE2008 - Kiewit Power			\otimes	
		03	тз	KPE - Power Delivery		SE2008 - Kiewit Power			\otimes	
		04	T4	KPE - Engineering S		SE2008 - Kiewit Power			\otimes	
		05	Т5	KME		SE2016 - Kiewit Mexico			\otimes	
		06	Т6	КОЕ		SE2019 - Kiewit OGC En			\otimes	

Is Vendor option

When the *Is Vendor* checkbox is not selected, the team can be associated to an organization in InEight Suite. When the *Is Vendor* checkbox is selected, the team can be associated to one-to-many vendors from InEight Platform.

2.7.1 Steps

You can do the following actions:

- Add Enter an ID, Team name, and either select the Is Vendor check box and a vendor, or an organization, and then click the Add team icon.
- **Remove** Click the **Remove team** icon to the right. You cannot remove a team assigned to a project.
- Edit Click in the fields, and then enter text or select an option.
- **Sort** Select a team, and then click the up and down arrows to the right of the table to adjust the position of the team.

In the organization Resource settings, you can assign resource users to a team and add a team when assigning resource users. For more information, see <u>Resources</u> in organization settings.

At the project level, all teams from the parent organization are automatically inherited. For more information, see Teams in project settings.

2.7.2 Considerations

• You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.

2.8 RESOURCES

Resource users are used to assign to claiming steps on scope items. Resource users are associated with resource types and can be grouped into teams.

You can create resource users in Settings > Design > Engineering > **Resources**.

Project values	D	isciplines Resource	types Milestones	Design elements	Sche	dule Teams Re	sources A	ccount code set Cause co
F	Reso	urces						
-								🕀 🔺 🗹 🔍
		User	Resource type	Discipline		Team	- Start date	+ Assign resource user
		Vpps Later Da PR	AA	AA		R1, Team 1, KT, A11, AA, test1 Architectural Testing Inc	11/25/2023	 Assign resource users by type
		Retraited	Architectural Landscaping	Architectural		A11, test1, Architectural Testing Inc	12/08/2023	(+) Assign resource users to tea
		ANA (11)	Architectural Landscaping	Architectural		A11, Architectural Testing Inc	01/27/2024	w l
		Manatha R	Architectural Landscaping	Architectural		AA, A11, test1, Architectural Testing Inc	01/30/2024	\otimes
		Aaron Cohan	Architectural Landscaping	Architectural		KT, Architectural Testing Inc	02/12/2024	\otimes
		spitt carloss	Architectural Landscaping	Architectural		KT, AA, test1, Architectural Testing Inc	02/21/2024	\otimes
		Adam Notace	Architectural Landscaping	Architectural		Architectural Testing Inc	02/21/2024	\otimes
		Annaldi Stati PTR	Estimating	Estimating		Architectural Testing Inc	11/23/2023	\otimes
		Ownerse 1	Architectural Landscaping	Architectural		Architectural Testing Inc	02/21/2024	\otimes
		1111 111 Inparials	Architectural Landscaping	Architectural			02/21/2024	⊗ _

2.8.1 Steps

You can do the following actions:

- Assign resource user –Add an individual resource user.
 - 1. Click the **Add resource** icon, and then select **Assign resource user** from the list. The Add resource slide-out panel opens.
 - 2. Select a user, start date, and resource type.
 - 3. Optionally, select a team or teams from the **Enter team** drop-down list, select the start date, and then click the **Add team** icon.
 - 4. Click Save.

To remove a team, click the **Remove ream** icon to the right.

- Assign resource users by type Add multiple resource users assigned to one resource type.
 - 1. Click the **Add resource** icon, and then select **Assign resource user by type** from the list. The Assign resource users by type slide-out panel opens.
 - 2. Click the **Select resource type** drop-down list, and then select a resource type.
 - 3. Click the **Enter resource user** drop-down list, select a resource user from the list, and then select the start date.
 - 4. Click the Add resource user icon to add the resource user to the list.
 - 5. Click **Add** to assign resource users by type.

To remove a resource user, click the **Remove resource user** icon to the right.

- Assign resource users to team Add multiple resource users assigned to one team.
 - 1. Click the **Add resource** icon, and then select **Assign resource users to team** from the list. The Assign resource users to team slide-out panel opens.
 - 2. Click the **Select team** drop-down list, and then select a team.
 - 3. Click the **Enter resource user** drop-down list, select a resource user from the list, and then select the start date.
 - 4. Click the Add resource user icon to add the resource user to the list.
 - 5. Click **Add** to assign resource users to team.

To remove a resource user, click the **Remove resource user** icon to the right.

- Delete Click the Delete resource icon to the right. You cannot delete resources assigned to a
 project. To remove a resource or team, click the Remove resource user or Remove team icon to
 the right.
- Edit Select a resource, and then click the Edit resource icon.

In settings at the project level, you can turn the **Limit user assignments to only those Teams associated with the project** toggle to *On* to allow only those users who are associated to Teams assigned on the project to be able to assign on the project. For more information, see <u>Resources</u> in project settings.

2.8.2 Considerations

- You must have Level 3 Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.
- 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.

2.9 ACCOUNT CODE SET

You can use account code sets 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. You can only add account codes that exist in Main menu > Master data libraries > **Account codes**.

You can enable and create account code sets for your organization in Settings > Design > Engineering > Account code set. To enable account code sets, turn the Account code set enabled toggle to *On*.

A	ount code	a cot						
Accoun	t code set enabled							
C								
	t code set			selected account code set ir	project settings?			
T1			• (0)	\mathcal{I}				
_							▲ 🕸	5 5
	Account code		Account code description	Design element	Primary UoM	Alternate System UoM	Ground	Acco
	00		Overhead	HH2	PLS	PLS	Under	2
	A1		TEST	INDIRECTS (PLS)	PLS	PLS	Above	2

Update account codes - The Update account codes feature alerts you of any account code updates made to the master account code library in Platform that impacts any account code in an ACS, such as deleted account codes or modified UoMs.

values	Disciplines	Reso	Act	count code se	Cau	ise codes	
Acc	ount code	set					
Accoun	t code set enabled						
$(\bigcirc$							
	t code set	_/					
ACS1		_(2		, _	
			\otimes	213	\$ [5 🖸	Q
	Account code		M	Ground		Account co	de g
	A1 🛆			Above		1	
	94.03.62.050.18			N/A		1	
	00.03	(N/A		1	
				Above		1	
	00.03.02.004						
	00.03.02.004						

2.9.1 Steps

You can do the following actions:

- Create a new account code set Click the Account code set drop-down list, and then select New account code set from the list. Enter a new name, and then click Create.
- Add account code set values to an account code set group Click the Configure account code group icon, enter an ID and description, and then click Add icon. Account code groups are account code set specific. Account code groups can be added individually or in bulk using the import process. You cannot add or import account codes to a set without at least one account code group maintained. You cannot delete account code groups tagged to an Account code in the set. Account code values assigned to an account code in the set cannot be removed.

roject values		Disciplines Re	source types	Milestones	Design el	ements	Schedule	Teams	Resources Account code set	Cause	codes
A	cco	ount code set									
Acc	count	code set enabled				Configu	ire account	code set values			>
6	0							ACCOUNT	CODE GROUP DRAWING CODES		
Acc	count	code set		Include	e selected a					1	
ĸ	KEGI A	C Set		• 📀			Position	*ID	*Description		
						+	1005	Enter ID	Enter description		
		Account code	Account	t code description	De		01	MQA	Ind - Project Mgmt	\otimes	^
		88.01.02	Design B	ngineering Indirects -	Pr FIE	. 0	02	MQB	Ind - Eng Mgmt	\otimes	
		88.01.04	Design B	ingineering Indirects -	En IND		03	MQC	Mech Pipe Plans	\otimes	
		88.01.06		ngineering Indirects -			04	MQD	Ind - Sponsor	\otimes	
							05	MQE	Ind - Area Manager	\otimes	
		88.01.08	Design b	ngineering Indirects -	Sp INL		06	MQF	Ind - DBI Manager	\otimes	
		88.01.12	Design B	ngineering Indirects -	Ar INE		07	MQG	Ind - Opp Support	\otimes	
4							08	MQH	Ind - Project Controls	\otimes	
		Subtotals	Count:	3,144			09	MQI	Ind - Doc Control	\otimes	
							10	MQJ	Ind - PG	\otimes	
							11	MQK	Ind - Admin	\otimes	
							12	MQL	Ind - Quality Team	\otimes	
							13	MQM	Ind - Other MISC	\otimes	
							14	MQN	Ind - Interface	\otimes	
							15	MQO	Expenses	\otimes	

- Add account codes to an Account code set Click the Add account code icon, select an account code from the list, and then click Assign. Select the required and optional attributes for the account code, and then click Add. After an account code is assigned to a project it cannot be removed.
- **Remove an account code or an account code group** To remove an account code, select the account code, and then click the **Remove account code** icon. To remove an account code group,

click the **Remove account code group** icon on the right. You cannot remove an account code group assigned to an account code set in the set or an account code assigned to a project.

- Edit an account code group or account code To edit an account code group, click in the fields, and then enter text. To edit an account code, select an account code, and then click the Edit account code icon. In the Edit account code slide-out panel, make your changes, and then click Save.
- **Sort account codes or groups** Select the item, and then click the up and down arrows to the right of the table to adjust the position of account code groups.
- Update account codes that have been modified in InEight Platform Click the Update account codes icon to open the Update account codes dialog box.

accour	nt codes you would like to i	update in the account co	had a UoM modified in Core. Ple de set.						Q
	Update type	Account code	Account code description	Design Element	Design Element UoM	Primary UoM	Alternate System UoM	Modified Primary UoM	Moc
	Modified UoM 💧	A1	A1	PAA	PAA	PAA		PLS	PLS [^]
	Deleted account code	A1	A1	PAA	PAA				

Select the account codes to update, and then click **Update**.

- Add drawing codes Click the Configure account code group icon, enter an ID and description, and then click Add icon. Drawing codes can be added individually or in bulk using the import process.
- **Remove a drawing code** Click the **Remove drawing code** icon to the right. You cannot remove drawing codes that have been assigned to a project.
- **Sort drawing codes** Select the item, and then click the up and down arrows to the right of the table to adjust the position of the drawing code.

At the project level, you can tie an account code set to your project. For more information, see <u>Account code set</u> in project level settings.

2.9.2 Considerations

- You must have Level 3 Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.
- To enable or disable the Tie to account code set toggle for a project, the scope items grid must be empty.
- Only account codes that are available in InEight Platform Master data libraries > Account codes can be added to an account code set.
- You cannot delete an account code from an account code set assigned to a scope item.

2.10 CAUSE CODES

In the Engineering module, cause codes are required when a quantity change occurs. For more information, see Update scope item quantity.

You can manage cause codes for your organization in Settings > Design > Engineering > Cause codes.

				QUANTITY FORECASTING	ENGINEERIN	IG	AUDIT LOG			
roject values	Disc	iplines	Resource types	Milestones	Design elements	Schedule	Teams	Resources	Account code set	Cause codes
C		codes								
	ause	coues								
		Position	*ID	*Description			1			
		07	Enter ID	Enter description						
		01	CR	Client Request		\otimes	*			
		02	PC	Prime Contract Change		\otimes				
		03	СС	Construction Change R	lequest	\otimes				
		04	MC	Vendor Design or Mate	rial Change	\otimes				
		05	EO	Engineering Error or On	nission	\otimes				
		06	DP	Design Progression		\otimes	-			

2.10.1 Steps

You can do the following actions:

- Add Enter and ID description, and then click the Add cause code icon.
- **Remove** Click the **Remove cause code** icon to the right. You cannot remove a cause code assigned to a scope item on a project.
- Edit Click in the fields, and then enter text or select an option.
- **Sort** Select a cause code, and then click the up and down arrows to the right of the table to adjust the position of the cause code.

Cause codes configured at the organization level are available to all projects.

2.10.2 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.

2.11 PROJECT SETTINGS FOR ENGINEERING

As an administrator, you can configure settings for the Engineering module at the project level. 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.

You can manage engineering settings for your projects in Settings > Design > Engineering.

The Design project settings gives you access to the following project configurations:

Project values Account code set Resource types Milestones Teams Resources Control settings Dates Documents

For general information on InEight cloud platform settings, see Project Settings.

2.12 PROJECT VALUES

2.12.1 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**.

Project values	isciplines Resource types	Milestones Desi	gn elements Schedule	Team
Project values				
Select which project values are to be used in engineering scope	tems.			
Name	In	clude	Required	
Area	(\bigcirc	
Construction commodity		Θ		
Segment	(0	
Subsystem			0	
System			0	
Turnover		Θ		
Work classification	(\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.

c	UANTITY FORECASTING	ENG	INEERING	_				
Project values Account code set	Resource types	Milestones	Schedule	Teams	Resources	Control settings	Dates	
Project values								
Select which project values are to be us	sed in engineering sco	ope items						
Name	see in engineering see	pe neme.					Include	
Area								
Segment							C Co	
Subsystem							Θ	
System							\bigcirc	
Work classification								

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.

								SCOPE ITEMS AUDIT I	.00				Default			
Act	ions	*	• 🕑 😣										•	C7	D	¢
			ID T	*Description	*Claiming scheme	Claiming scheme	% Comp	Edit scope item								(01
•	~		243458	test	104783 EW BSTR	Bridge Structures - Early		Summary								^
-	~		76464	TESTING1	104783IND	Indirects		ID CI		* Description		* Claiming scheme				
2	~		D 76463	TESTING	104783IND	Indirects		243458		test		104783 EW 85TR		•		
	~		C 76365	details test - import1	104783FHV IFC	Fire Hose Valve addition		Scope item qty	١	* Scope item UoM		Leed Discipline				
	~		D 76364	details test - import2	104783FHV IFC	Fire Hose Valve addition		1.00		Ea	-	Structural				
	~		C 76363	Testing credit 1 updat	104783FHV IFC	Fire Hose Valve addition		OB qty		Deliverable qty		Deliverable UoM				
	~		C 76362	Testing Credit 2.0 new	104783FHV IFC	Fire Hose Valve addition				0.00		Sht				
	~		CD 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				
	~		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				
	~		42751	KIE MECH - FHV Chev	104783FHV IFC	Fire Hose Valve addition		Resources 📩				5				•
	~		L 42750	KIE MECH - FHV Dean	104783FHV IFC	Fire Hose Valve addition		User defined				0				
	~		D 42749	Jacobs MECH - FHV	104783FHV IFC	Fire Hose Valve addition		Dates								-
	~		42748	Jacobs MECH - FHV L	104783FHV IFC	Fire Hose Valve addition										
	~		D 42747	Jacobs MECH - FHV C	104783FHV IFC	Fire Hose Valve addition										

2.12.2 Considerations

• You must have the Edit engineering settings permission.

2.12.3 Related links

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

2.13 ACCOUNT CODE SET

Account code sets are used 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. To make an account code set available in project settings, select an account code set at the organization level. For more information, see <u>Account code set</u> in organization settings.

You can manage account code set settings for your project in Settings > Design > Engineering > Account code set.

Project va	Account code set	Resource types	Milestones	Schedule	Teams	Resources	Control settings	Dates	Documents	
Account code	set									
ied to account code set?	*Account code set locks on upload of scope item structure			lect UoM from A	ccount Code	Set:	Validate UoM for claiming? (1)			
	KEGI AC Set	-		Primary UoM Alternate System UoM			Θ			

Tied to account code set - You can tie an account code set to your project by turning the Tied to account code set toggle to *On*. You can then select an account code set. Only account codes in that set are available to assign to scope items in the project.

Select UoM from Account Code Set - You can set either the primary or alternate system UoM to be used throughout the project. The primary and alternate system UoM are configured at the organizational level.

Validate UoM for claiming toggle – You can choose to validate the account code primary UOM from the master library. When the Validate UoM for claiming toggle is turned to *On*, the UoM in account code, scope item, and WBS must match to enable claiming. By setting the Validate UoM for claiming toggle to *Off*, only the UoM for the scope item and WBS must match.

2.13.1 Considerations

• You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.

• To turn the **Tied to account code set** toggle to *On* or *Off*, the scope items grid for the project must be empty.

2.14 RESOURCE TYPES

Resource types are associated with disciplines and must be managed in your project to add claiming schemes. For more information, see <u>Configure claiming schemes</u>. Resource types are created at the organization level.

You can manage resource types for your project in settings > Design > Engineering > **Resource types**.

	Ρ	roject values	Account code set Resource type	s Milestones Schedule	Teams Resources	Control settings	Dates Documer
Reso	ource t	уре					
	Position	*ID	*Description	Discipline	Ŷ		
(+)	20		Select resource type	-	\downarrow		
	01	TLR	Track Light Rail	Track	\otimes		
	02	BGS	Building Stations	Building	\otimes		
	03	EEN	Electrical Engineer	Electrical	\otimes		
	04	EVN	Environmental	Environmental	\otimes		
	05	PMG	Project Management	Indirects	\otimes		
	06	PCT	Project Controls	Indirects	\otimes		
	07	QAM	Quality Management	Indirects	\otimes		
	08	DCT	Document Control	Indirects	\otimes		

2.14.1 Steps

You can do any of the following actions:

- Add Click the Select resource type drop-down list, select a resource type, and then click the Add resource icon.
- **Remove** Click the **Remove resource type** icon to the right. You cannot remove a resource type that has been assigned to a project.

• **Sort** - Select a resource type, and then click the up and down arrows to the right of the table to adjust the position of the resource type.

All resource types are created at the organization level and are automatically inherited in projects. For more information, see Resource types in organization settings.

2.14.2 Considerations

- You must have Level 3 Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.
- When you assign a resource type to a claiming scheme step, its associated ID and discipline is automatically populated.

2.15 MILESTONES

2.15.1 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.

						Y FORECASTING	ENGINEERING
			Disciplines	Resource types	Milestones	Design elements	Schedule
ilest	ones						
	Position	*ID	*Description				
(+)	37	IFC	Issue for Construction]		
	04	ITD	Type Selection Submittal		\otimes	•	
	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.

2.15.2 Considerations

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

2.15.3 Related links

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

2.16 TEAMS

Teams are used to group resources to assign to claiming steps for scope items. Teams created at the organization level are inherited to all projects in the organization. For more information, see <u>Teams</u> in organization settings.

You can manage teams for your project in Settings > Design > Engineering > Teams.

	Pro	ject values	Account code set Resource	e types	Milestones Schedule	Teams Resources Control settings	Dates Do	ocuments		
ean	ו									
	Position	ID	*Team	Is Vendor	Organization	Vendor	View All Scope Items	Limit Claiming to Team		
+	18	T1	KPE - Power Gen 💌		SE2008 - Kiewit Power Engi					
	12	T83	Clark Transportation Consultin						\otimes	1
	13	T55	SHELADIA ASSOCIATES INC						\otimes	
	14	T67	Tourney Consulting Group LLC	1			<		\otimes	
	15	T41	M J Engineering and Land Surv	2			<		\otimes	ļ
	16	Т7	KIE		SE5001 - Kiewit Infrastru		<		\otimes	l
	17	Т2	KPE - Water		SE2008 - Kiewit Power E				\otimes	,

You can do the following actions:

- Add Click the Enter team drop-down list, select a team, and then click the Add team icon.
- **Remove** Click the Remove team icon to the right. You cannot remove a team assigned in a project.
- **Sort** Select a team, and then click the up and down arrows to the right of the table to adjust the position of the team.
- 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.

The View All Scope Items and Limit Claiming to Team options are available when the Limit user assignments to only those Teams associated with the project toggle is set to *On* in the Resources settings for your project. For more information, see <u>Resources</u> in project settings.

2.16.1 Considerations

• You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.

2.17 RESOURCES

Resources users are used in the Engineering module to for assignment to claiming steps on scope items. Resources configured at the organization level are available to all projects in the organization. For more information, see <u>Resources</u> in organization settings.

You can manage resources user assignment limits for your project in Settings > Design > Engineering > **Resources**.

QUANTITY FORECASTING										
ct values	Account code set	Resource types	Milestones	Schedule	Teams	Resources	Control settings	Dates	Documents	
it to only tho	se Teams associate	ed with the project	()							

Limit user assignments to only those Teams associated with the project - When set to *Off*, any user with project permissions will be available to assign on the project. When set to *On*, only those users who are associated to Teams assigned on the project will be available to assign on the project.

By default, this toggle is set to *Off*. To set the toggle to *On*, at least one team must be added to the project.

2.17.1 Considerations

- You must have Level 3 Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.
- When you set the Limit user assignment to only those Teams associated with the project toggle to *On* after the project has started, the system validates that all users assigned to incomplete claiming steps are associated with teams added to the project.

2.18 CONTROL SETTINGS

As a project administrator, you can enable InEight Control integration and functionality for your project in Settings > Engineering > **Control** settings tab. You can enable the integration of Design with Control and allow for claims to exceed the forecast TO quantity in Control.

		QUAN	TTY FORECASTIN	IG EI	GINEERING					
Project values	Account code set	Resource types	Milestones	Schedule	Teams	Resources	Control settings	Dates	Documents	
Control Settings										<u>^</u>
Enable Control Integration ()	P		eed Forecast T	O Qty in Cont	rol 🛈					
	(\odot								
	Control Settings	Control Settings	Project values Account code set Resource types Control Settings Image: Control Integration (image: Control Integrate)))	Project values Account code set Resource types Milestones Control Settings Image: Control Integration () Allow claims to exceed Forecast Tree Image: Control Integration () Image: Control Integration () Image: Control Integration ()	Project values Account code set Resource types Milestones Schedule Control Settings Enable Control Integration ① O	Project values Account code set Resource types Milestones Schedule Teams Control Settings Image: Control Integration () Allow claims to exceed Forecast TO Qty in Control () Image: Control Integration () Imag	Project values Account code set Resource types Milestones Schedule Teams Resources Control Settings Image: Control Integration () Image: Control Integration () Allow claims to exceed Forecast TO Qty in Control () Image: Control Control Control Control ()	Project values Account code set Resource types Milestones Schedule Teams Resources Control settings Control Settings Image: Control Integration () Allow claims to exceed Forecast TO Qty in Control () Image: Control Setting ()	Project values Account code set Resource types Milestones Schedule Teams Resources Control settings Dates Control Settings Allow claims to exceed Forecast TO Qty in Control ① Image: Control Integration ① Image: Control Settings Image: Control Settings	Project values Account code set Resource types Milestones Schedule Teams Resources Control settings Dates Documents Control Settings Allow claims to exceed Forecast TO Qty in Control ① Image: Setting Seting Setting Setting Setting Setting Setting Setting Set

2.18.0.1 Enable Control integration

When the Enable Control Integration toggle is turned to *On*, a WBS code must be assigned for each Resource Type on a scope item to enable claiming on the scope item. This allows for WBS phase codes to be assigned to scope items. Also, scope item's steps are claimed and synced with Control to track the quantity completion progress on the associated WBS phase codes.

The Get TC Remaining MHrs/Unit action is also made available. For more information, see <u>Actions</u> <u>overview</u> in the Engineering module.

When the Enable Control Integration toggle is set to *Off*, the WBS assignment is not needed to enable claiming on a scope item. Claims made in Engineering are not sent to Control. Also, all WBS related columns and fields are hidden.

The setting is set to On by default for all new projects. The setting can only be updated when no scope items exist on the project. The setting is locked once a scope item is added on the project. All scope items must be deleted to update the setting.

2.18.0.2 Allow claims to exceed Forecast TO quantity in Control

You can configure whether to allow claims to exceed the forecast TO quantity in Control. When the Allow claims to exceed Forecast TO Qty in Control setting is turned to *On*, Design validates whether any

claims exceed the remaining Forecast TO quantity on the associated WBS in Control. A warning banner is shown to indicate that a claim exceeds the forecast TO quantity in Control before sending the claim to Control.

When set to *Off*, Design will not allow any claim to save when it exceeds the remaining Forecast TO Qty on the associated WBS in Control. A warning banner is shown to indicate that the claim exceeds the remaining Forecast TO Qty.

The Allow claims to exceed Forecast TO Qty in Control setting shows only when the Enable Control Integration setting is set to *On*. Otherwise, the setting will be hidden. This setting is set to *Off* by default and can be turned to *On* at any point during the project. The setting will apply to the claims thereafter.

2.18.1 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.

2.18.2 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>.

2.19 DATES

As a project administrator, you can configure scope item dates values for your project in Settings > Engineering > **Dates** tab.

Project valu	s Account code set	Resource types	Milestones	Schedule	Teams	Resources	Control settings	Dates	Documents
Dates									
Enable Scope Item Dates	D								
\bigcirc									
Scope item (i)									
Scope item / Milestone	D								
Scope item / Schedule	roup 🛈								

2.19.0.1 Enable scope item dates

When you turn the Enable Scope Item Dates toggle to On, you must select from the three available options for dates. The Dates panel also shows for scope items.

Resources						•
User defined						•
Dates						^
	Planned start	Planned finish	Current start	Current finish	Actual start	Actual finis
Interim Submittal	05/07/2024	05/13/2024	05/14/2024	04/30/2024 🔥	03/11/2023	05/27/2023
IFC Submittal	05/10/2024	05/13/2024	05/28/2024	05/06/2024 📐	05/27/2023	07/08/2023
IFC Approved	05/23/2024	05/20/2024 🔥	05/15/2024	04/30/2024 🔥	07/08/2023	09/30/2023

Actual start dates are an aggregated value based on the claim date that you specify when you begin claiming. The Actual start date is based on the Dates settings shown in the following table:

Setting	Description
Scope item	Generates one set of Planned, Current, and Actual Start and Finish Dates per scope item. The system captures the first claim date made on the scope item in the Actual Start Date field.
Scope item / Milestone	Generates one set of Planned, Current, and Actual Start and Finish Dates per unique milestone associated with the assigned claiming scheme. The system captures the first claim date made on each milestone on a claiming scheme in the Actual Start Date field.

Setting	Description
Scope item / ScheduleGroup	Generates one set of Planned, Current, and Actual Start and Finish Dates per unique Scheduled Group associated with the assigned claiming scheme. The system captures the first claim date made on each schedule group on a claiming scheme in the Actual Start Date field.

2.19.1 Consideration

- You must have Level 3 Account Admin permissions in InEight Platform or a role with the applicable permissions in Engineering.
- Scope item Dates values can only be updated when no dates are present on any scope item.

2.20 DOCUMENTS

You can integrate documents from InEight Document with scope items for your project in Settings > Engineering > **Documents**.

	Project values	Account code set	Resource types	Milestor	nes	Schedule	Teams	Resources	Control settings	Dates Doo
Docu	ments									
Enable [Document integration	ı								
Select w	hich document types	s are to be shown in (document associat	ion. Bv det	fault all	document	types are inc	luded.		
	nt Types		Refresh documer				Document Ty			
Search	nt Types	رىا	There on a bound	Q		Search	Document Ty	pes		
	Document type						Document ty	pe		
	РНОТО			*						
	REPORT						MAN			
	SCHED				>		REG			
					÷					
							SKETCH			
							SPEC			
J										

To associate documents from Document with scope items, turn the **Enable Document integration** toggle to *On*. To enable Document integration, you must first setup the project in InEight Platform > Suite Administration > **Application integrations**.

When Document integration is set to *On*, the Document Types grids show. This is where you can manage the document types to show in document association. The Associate documents action is also made available in Engineering > Scope Items > **Actions** drop-down menu.

Document types

The Document Types grid shows all available document types from Document. Click **Refresh document types** to sync them from Document. You can select which document types from the Document register are shown in the Associate documents page when associating documents to scope items.

Selected Document Types

The Selected Document Types grid shows the document types to be synced. Document types that have an active association cannot be removed unless you remove their associations.

To add a document type, select it from the Document Types list, and then click **Move right**. To remove a document type, select it from the Selected Document Types list, and then click **Move left**.

Associate documents

You can associate documents in project > Engineering > Scope Items > Actions > **Associate documents** page. For more information about associating documents, see <u>Associate documents</u>.

2.20.1 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform, a role with the applicable permissions in Engineering, and applicable permissions in InEight Document.

CHAPTER 2 – ORGANIZATIONAL SETTINGS FOR QUANTITY FORECASTING

The organization Quantity forecasting settings gives you access to the following configurations:

- Project values
- Account code set and Discipline set
- Design tracking stages

- Design elements
- <u>Notes</u>
- <u>Cause codes</u>

The configured settings are available for each project in the organization. You can manage quantity forecasting settings for your organization in Settings > Design > **Quantity Forecasting**.

For general information about InEight cloud platform settings, see Organization Settings.

2.0.1 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.1 PROJECT VALUES

You can configure the criteria for how project value types are associated to a quantity item and if they are required in projects in the organization in org > Settings > Design > Quantity Forecasting > **Project values**. The values that have Include turned to *On* show as optional in all projects within the organization. The values that have Required turned to *On* show as required in all projects in the organization.

				0 ¢
		QUANTITY FORECASTING	ENGINEERING AUDIT LOG	
				Cancel
Proi	ect value	S		
		s are to be used in quantity items.		
Nam	•		Include	Required
Area			$\overline{\bigcirc}$	\bigcirc
Cons	ruction commodi	ty	\bigcirc	\bigcirc
Segn	ent			\bigcirc
Subs	rstem		\bigcirc	\bigcirc
Syste	m		$\overline{\bigcirc}$	$\overline{\bigcirc}$
Turne	ver		\bigcirc	\bigcirc
		nd Discipline set		
Desi				
Desi	Position	*Design stage title		
()	Position 04	*Design stage title Enter design stage title		
	04	Enter design stage title		

In the project > Settings > Quantity Forecasting > Attribute and project values > **Project values** section, you only see the project values that are included at the organization level.

Include – When you turn the Include option to *On* for a project value, the project value becomes available as an attribute in the quantity item. By default, the value is turned *Off* in the project. You have the option to turn the Include option to *On*.

Required - When you turn the Required option to *On* for a project value, the project value type is a required attribute on the quantity item. The project-level toggles for these values are automatically turned to *On* and cannot be changed. The system will check that these required fields are maintained when adding or editing quantity items in the project. Required fields will show with an asterisk in the project to let you know which fields are required when adding or editing quantity items.

2.1.1 Considerations

• You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

• Include will be disabled if any quantity item has data maintained or if Required is turned to *On*. Required becomes disabled if quantity item data exists but there are quantity items that do not have that project value type maintained.

2.2 ACCOUNT CODE AND DISCIPLINE SETS

You can enable the option to use account code and discipline sets by turning the **Enable Account code** set and **Discipline set** toggle to *On*.

	QUANTITY FORECASTING	ENGINEERING	۵	UDIT LOG					
								Cancel	Save
Enable Account code set	and Discipline set								
Discipline se	t						_		_
Account cod	e set				_				
Account code set									
Select one	•		(+)	۲Ø	\bigotimes	Ŵ	5 71	۲۴	0

When the feature is set to *On*, you can manage disciplines sets and account code sets. You must first create discipline sets to create account code sets.

2.2.1 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.3 DISCIPLINE SET

Discipline sets are used to link to an account code set, which will limit the account code set to use only those disciplines in the set. When the **Enable Account code set and Discipline set** toggle is set to *On*,

you can manage disciplines for your organization in Settings > Design > Quantity Forecasting > **Discipline set**.

Disci	oline se	t					
Discipline	set						
Disciplin	e one		-				
					¢		
	Position	*Discipline	*Discipline group			↑	
	04	Select discipline 👻	Select discipline group	-		\downarrow	
	01	Aggregates and Paving	1	\otimes	*		
	02	Building	1	\otimes			
	03	Bulk Commodities	2	\otimes			

The standard disciplines can be added or removed from a set to limit which disciplines are available. When disciplines are added to a set, they must be associated to a Discipline Group.

2.3.1 Steps

You can do any of the following actions:

- Create a new discipline set Click the Discipline set drop-down list, and then select New discipline set. Enter a new name, and then click Create.
- Add discipline group Select a discipline set from the list, click the Configure discipline group icon, enter an ID and description, and then click Add icon. You cannot delete a discipline group assigned to a discipline in the set.

								Cancel	Sa
Disci	oline set	t							
Discipline :	set		•	Configu	re discipli	ne group			
WINT			·		Position	*ID	*Description		
	Position	*Discipline	*Disciplir		07	Enter ID	Enter description		
	11	Select discipline 👻	Select dis		01	1	1	\otimes	-
	01	Aggregates and Paving	1		02	2	2	\otimes	
	02	Building	1		03	3	3	\otimes	
	03	Bulk Commodities	2		04	4	4	\otimes	
	04	Change Orders, Contract All	2		05	5	5	\otimes	
	05	Commercial Cost	4		06	7	7	\otimes	

- Add discipline to a discipline set group Click the Discipline set drop-down list, and then select a discipline set. Click the Select discipline drop-down list, and then select a discipline. Click the Select discipline group drop-down list, and then select a discipline group. Click the Add discipline to set icon. You cannot delete a discipline assigned to an account code in an account code set.
- Remove a discipline or a discipline group Click the Remove discipline from the set or the Remove discipline group icon to the right. You cannot delete a discipline group assigned to a discipline in the set or a discipline assigned to an account code in an Account Code set.
- Edit a discipline group or a discipline Click in the fields, and then enter text.
- **Sort** Select the item, and then click the up and down arrows to the right of the table to adjust the position of a discipline or discipline group.

2.3.2 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.4 ACCOUNT CODE SET

Account code sets (ACS) are used to configure metadata in an account code to better drive data reliability when leveraging account codes on quantity items. Account code sets also help you narrow down account codes to only those you need to use in Design for specific projects. ciYou can only add account codes that exist in Main menu > Master data libraries > **Account codes**.

When the **Enable Account code set and Discipline set** toggle is set to *On*, you can manage account code sets for your organization in Settings > Design > Quantity Forecasting > **Account code set**.

ACC	ount code set											
Accoun	t code set		Discipline set				Include selected a	ccount cod	e set in proje	ect setting	s?	
SASA		•	1Kiewit		*		(\bigcirc)					
						(+)		3	\$	٦		C
	Account code	Account code de	escription	Design element	Primary UoM		Alternate Sys	tem UoM	Ground			Disci
	30.06.02.002	Mobilization and	Demobilization	Mobilization / Demobili	Ea		Ea		Above			Opera
	30.06.02.006	Equipment Setup	, Dismantle, Rec	Mobilization / Demobili	Ea		Ea		Under			Overł
	30.06.02.009	Overland Major C	Crane Moves - La	Crane Walk	LF		m		Above			Opera
	30.06.02.012	Tower Crane Set	up and Dismantle	Mobilization / Demobili	Ea		Ea		Above			Opera
	30.06.02.012.02	Tower Crane Set	up - Foundation	Mobilization / Demobili	Ea		Ea		Above			Opera

2.4.1 Steps

You can do any of the following actions:

- Create a new account code set Click the Account code set drop-down list, and then select New account code set from the list. Enter a new name, and then click Create.
- Add account code set values to an account code set group Click the Configure account code group icon, enter an ID and description, and then click Add icon. Account code groups are account code set specific. Account code groups can be added individually or in bulk using the import process. You cannot add or import account codes to a set without at least one account code group maintained. You cannot delete account code groups tagged to an Account code in

								Save
Acc	count code set							Cart
	nt code set	Disciplin	ne set			Include selected account code se	et in project setting	s?
S11		▼ S1	Configu	re account	code set values			
	Account code	Account code descri				CCOUNT CODE GROUP		
							C"	
	00	Overhead		Position	*ID	*Description		
	00.09.04	OH - Administrative	÷	06	Enter ID	Enter description		
	00.09.08	OH - Financial Planniı		01	1	1	\otimes	↓
	00.09.02	OH - Management		02	2	2	\otimes	
				03	3	3	\otimes	
•				04	4	4	\otimes	
	Subtotals	Count: 4		05	5	5	\otimes	

the set. Account code values assigned to an account code in the set cannot be removed.

- Add account codes to an Account code set Click the Add account code icon, select an account code from the list, and then click Assign. Select the required and optional attributes for the account code, and then click Add.
- **Remove an account code or an account code group** To remove an account code, select the account code, and then click the **Remove account code** icon. To remove an account code group, click the **Remove account code group** icon to the right. You cannot remove an account code group assigned to an account code set in the set or an account code assigned to a project.
- Edit an account code group or account code To edit an account code group, click in the fields, and then enter text. To edit an account code, select an account code, and then click the Edit account code icon. In the Edit account code slide-out panel, make your changes, and then click Save.
- **Sort** Select the item, and then click the up and down arrows to the right of the table to adjust the position of account code groups.
- Update account codes that have been modified in InEight Platform The Update account codes feature alerts you of any account code updates made to the master account code library in Platform that impacts any account code in an ACS, such as deleted account codes or modified UoMs.

ccoun	t code set	Dis	cipline set			Incl	ude selected ac	count code s	set in proj	ect setting	js?	
SASA		• 1	k		•	0		-				
						•	3 ⊗	3	¢	C T		Q
	Account code	Account code descript	ion	Design element	Primary UoN	и	Alternate Sys	tem UoM	Groun	ł		D
	61.09.14 🛆	Concrete on Metal Decl	c	Concrete on Metal Dec	SF		m2		Above			Ci
	61.09.14.002 🛆	Concrete on Metal Decl	c	Concrete on Metal Dec	SF		m2		Above			C
	61.09.14.002.02	Concrete on Metal Decl	- Fab Fo	Fab Forms	SF		m2		Above			Ce
	61.09.14.002.04	Concrete on Metal Decl	- Edge o	Concrete on Metal Dec	LF		m		Above			Ce
	61.09.14.002.06	Concrete on Metal Decl	- Deck P	Concrete on Metal Dec	SF		m2		Above			C
€												+ -

You can review and update the account codes using the Update account codes wizard. Click the **Update account codes** icon to launch wizard and sync account codes in the set with the master data account code in Platform.

ount	,								Q
	Update type	Account code	Account code description	Design Element	Design Element UoM	Primary UoM	Alternate System UoM	Modified Primary UoM	Moc
	Modified UoM 🛆	61.09.14	Concrete on Metal Deck	Concrete on Metal	SF	SF		CY	m3 [^]
	Modified UoM 🛆	61.09.14.002	Concrete on Metal Deck	Concrete on Metal	SF	SF		CY	m3
	Modified UoM 💧	70.25.24	Pipeline Tie-In	Pipeline Tie-In - LF	LF	LF		Ea	Ea
									• •

Any account codes that are updated in the ACS are also updated in projects that have the ACS assigned. To update modified UoM update types, the Design element UoM assigned on the account code in the ACS must match the modified UoM. You cannot select the account code

without the UoM match. You can edit the Design element assignment directly in the wizard to assist with the UoM alignment.

• Make an ACS available in project settings - Select an account code, and then turn the Include selected account code set in project settings toggle to *On*.

At the project level, you can tie an account code set to your project. For more information, see **Account code set** in the <u>General</u>.

2.4.2 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.5 DESIGN TRACKING STAGES

Design tracking stages are used to track how scope quantities change across an organization's design's milestones. You can manage Design tracking stages for your organization in Settings > Design > Quantity Forecasting > Design tracking stages.

		QUANTITY FORECASTING	ENGINEERING	AUDIT LOG	
					Cancel
Desigi	n tracki	ng stages			
	Position	*Design stage title		\uparrow	
	12	Enter design stage title			
	01	30% Qty	\otimes	A	
	02	60% Qty	\otimes		
	03	90% Qty	\otimes		
	04	100% Qty	\otimes		
	05	Option A Qty	\otimes		
	06	Current IFC Qty	\otimes		
	07	Option B Qty	\otimes		
	08	add	\otimes		
	09	Stage 1	\otimes		

2.5.1 Steps

You can do any of the following actions:

- Add Enter a Design stage title, and then click the Add icon. Design stage titles must be unique.
- Edit Click in the fields, and then enter text.
- **Delete** Click the **Delete Design tracking stage** icon to the right. You cannot delete tracking stages assigned to a project.
- **Sort** Select the Design tracking stage, and then click the up and down arrows to the right of the table to adjust the position of a Design stage.

When Design tracking stages are created, they become available to add in the settings for projects in the organization. For more information, see <u>Design tracking stages</u> in project level settings.

2.5.2 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.6 DESIGN ELEMENTS

Design elements are used to group like scope into specific coding that you can associate to a quantity item and roll up quantity, hours, and cost to the design element level to drive decision making information on a project.

You can manage design elements for your organization in Settings > Design > Quantity forecasting > **Design elements**.

QUANTITY FORECASTING ENGINEERING AUDIT LOG

Design e	elements
----------	----------

						5	3
ID	≫ *Design Element	*UoM	Alternate System UoM	Parent(optional)	Include in rollup		
	Enter design element title	Select UoM 👻		Select design elemen 🖣			
1514	✓ 30 - Operational Supp	PLS	PLS			\otimes	*
1515	✓ 50 - Removals and De	СҮ	m3			\otimes	1
1516	✓ 51 - Grading	СҮ	m3			\otimes	1
1517	✓ 52 - Civil Utilities	LF	m			\otimes	
1518	✓ 53 - Aggregates and P	SY	m2			\otimes	
1519	✓ 54 - Temporary Work	PLS	PLS			\otimes	
1542	✓ 58 - Routine Maintena	LMi	LKm			\otimes	
1520	✓ 60 - Deep Foundations	Ea	Ea			\otimes	
1521	∽ 61 - Concrete	СҮ	m3			\otimes	
1522	∽ 62 - Metals	Ton	MT			\otimes	
1523	V 70 - Piping	LF	m			\otimes	
1524	✓ 71 - Mechanical Equip	Ea	Ea			\otimes	

2.6.1 Steps

You can do any of the following actions:

- Add Enter a unique name, select a UoM, and optionally select a parent Design element to group elements together, and then click the Add design element icon. The Alternate System UoM will be automatically populated based UoM selected. You can also use the import process to import Design elements using the Export and Import icons.
- Edit Click in the fields, and then enter text.
- Delete Click the Delete Design element icon on the right. You cannot delete terminal Design elements assigned to a quantity item.
- Sort Select the Design element, and then click the up and down arrows to the right of the table to adjust the position of a Design element.

• Include in rollup - The Include in rollup option is only applicable to terminal Design elements. The setting can only be selected when the terminal Design element UoM matches its parent Design element UoM.

When Design elements are created, they become available to add in the settings for projects in the organization. For more information, see <u>Design element setup</u> in project settings.

2.6.2 Considerations

- You must have Level 3 Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.
- Only terminal Design elements can be associated to a quantity item.
- A parent Design element cannot be deleted when associated with a terminal Design element.
- Design element names must be unique and are required to have a UoM.

2.7 NOTES

2.7.1 Tags

Tags are used when entering notes or quantity item change log entries. You can manage tags for your organization in Settings > Design > Quantity forecasting > Notes > **Tags**.

		QUANT	ITY FORECASTING ENGINEERI	NG AUDIT LOG		Cancel
	_					
Note	S					
Tags						
	Position	*ID	*Description	Required		Ť
	06	Enter ID	Enter Description	Θ		\downarrow
	01	QR	Quantity Reduction	Θ	\otimes	*
	02	QG	Quantity Growth	Θ	\otimes	
	03	EA	Estimating Aware	\bigcirc	\otimes	
	04	A1	A1	\bigcirc	\otimes	
	05	A2	A2	$(\bigcirc$	\otimes	

2.7.2 Steps

You can do any of the following actions:

- Add Enter a tag ID, description, set the Required toggle, and then click the Add tag icon.
- Edit Click in the fields, and then enter text.
- **Delete** Click the **Delete tag** icon on the right of the table. Tags assigned to a quantity item cannot be deleted.
- **Sort** Select the tag, and then click the up and down arrows to the right of the table to adjust the position of a tag.

When the required toggle is set to *On*, the tag is added to all the projects in the organization. Tags not set as required are available to add to all projects in Project Settings. For more information about Tags, see **Notes** in <u>General</u> project settings.

2.7.3 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.8 CAUSE CODES

Cause codes are a standard set of coding you can configure for your organization to highlight reasons why change was observed on the project. When a quantity item change occurs, you are required to use cause codes.

You can manage cause codes for your organization in Settings > Design > Quantity Forecasting > Cause codes.

						Cancel
°au e	e codes					
Juus		·				
	Position	*ID	*Description		↑	
	13	Enter ID	Enter description		↓	
	04	DP	Design Progression	8	•	
	05	DG	Design Growth	\otimes		
	06	EEO	Engineering Error or Omission	\otimes		
	07	ESEO	Estimating Error or Omission	\otimes		
	08	VDMC	Vendor Design or Material Change	\otimes		
	09	PCC	Prime Contract Change	\otimes		
	10	C1	C1	\otimes		
	11	C2	C2	\otimes		
	12	C3	C3	\otimes		

2.8.1 Steps

You can do any of the following actions:

- Add Enter an ID and a description, and then click the Add Cause code icon.
- Edit Click in the fields, and then enter text.
- **Delete** Click the **Delete cause code icon** to the right. You cannot delete cause codes assigned to a quantity change note on a project.
- **Sort** Select the cause code, and then click the up and down arrows to the right of the table to adjust the position of a cause code.

When cause codes are created, they become available to all projects in the organization. For more information, see <u>Quantity change notes</u>.

2.8.2 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

CHAPTER 2 – PROJECT SETTINGS-QUANTITY FORECASTING

You can configure <u>Project quantity forecasting settings</u> and <u>Engineering</u> settings for your project. The settings configured at the project level are applied throughout your project.

You can access project settings in project > settings > **Design**.

2.1 GENERAL

The general settings gives you access to general project configurations. From your project's home page, you can manage the general settings in Settings > Design > Quantity Forecasting > **General**.

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

_				QUANTITY FOREC	ASTING	ENGINEERING			
Ge	neral Des	sign element setup	Design tracking stages	Attributes and project	t values	Component integration	Schedule	Linked engineering projects	Cancel
Auto	ID conf	figuration							
		a new quantity item's	ID?						
\bigcirc)								
Acco	unt cod	le set							
Tied to acc	count code set	1? *Acco	unt code set locks on upload	of quantity item structure		t UoM from Account Code Set			
\bigcirc)	1Kie	swit	•		imary UoM ternate System UoM			
Contr	ol Integ	gration							
Inherit WB vendors)	S attributes? (A	Account code, Cost s	egment, UoM, Pay item, Assig	gned					
\bigcirc)								
Manu	ual Unit	Rate Confi	guration						
Enable edi	ting of OB MH	rs/Unit or CB MHrs/U	Init fields?						
Original Bu	idget 🛈			Current Bu	dget 🛈				
\odot)			Θ)				
	rate that will d	drive CE MHrs: 🕕							
Select unit CE MHI CB MHI Notes	rs/Unit								
CE MHI C CB MHI	rs/Unit								
 € се мні Св мні Notes 	rs/Unit	ID	*Description			↑			
 € се мні Св мні Notes 	rs/Unit	ID	*Description Select tag	•		Î Î ↓			
CE MH C CB MH Notes Tags	rs/Unit S Position	D adddddddd		•	8				
CE MHI CB MH CB MH Notes Tags	rs/Unit S Position 10		Select tag	•	× ×				
CE MHI CB MH CB MH O	rs/Unit S Position 10 10 01 02 03	addddddddd QG QR	Select tag addd Quality Growth Quantity Reduction	•	\otimes				
ce MHI cB MHI cB MHI CB MHI Tags c	rs/Unit S Position 10 01 02 03 04	addddddddd QG QR A1	Select tag addd Quality Growth Quantity Reduction A1	•	× ×				
ce MHI ce MHI	rs/Unit S Position 10 10 01 02 03 04 05	Adddddddd QG QR A1 A2	Select tag addd Quality Growth Quantity Reduction A1 A2	•	× × ×				
● CE MHI	Position 10 01 02 03 04 05 06	addddddddd QG QR A1 A2 A3	Select tag addd Quality Growth Quantity Reduction A1 A2 A3	•	 ⊗ ⊗ ⊗ ⊗ ⊗ 				
ce MHI ce MHI	rs/Unit S Position 10 10 01 02 03 04 05	Adddddddd QG QR A1 A2	Select tag addd Quality Growth Quantity Reduction A1 A2	•	× × ×				

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 is added to the project.
2	Account code set	Allows project admins to enable the use of Account Code Sets on a

General settings tab (continued)

_		F.	
	T i		6

Description

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 slideout 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. **Control Integration** Enable integration of InEight Control's WBS attributes for the project. Quantity items will inherit the

3

General settings tab (continued)

	Title	Description
		Account code, Cost segment, UoM, Pay item, and Assigned 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" 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.
5	CE MHrs Configuration	Allows project admins to specify which unit rate should be used to

General settings tab (continued)

	Title	Description
		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.

2.1.1 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.2 DESIGN ELEMENT SETUP

Design elements are used to group like scope into specific coding and associate it to a quantity item. The quantity, hours, and cost can then be rolled up to the design element level to drive decision making information on a project. Design elements are configured in organization settings and are available to all projects in the organization. For more information, see **Design elements** in organization settings.

You can manage Design elements in the project's Settings > Design > Quantity forecasting > **Design** element setup tab. You can select which Design elements are available on the project.

General	Design element se	tup Design tracking stages At	ttributes and project values Componen	t integration Schedule Linked e	engineering projects	Cancel Sav
	Proje	ct preferences				
	Desig	n elements				
		➢ Design elements	UoM	Include quantity i	Available in project	↑.
		Т1	T1			
		Т2	T2			
		✓ 30 - Operational Support	PLS			
		✓ 50 - Removals and Demolition	CY			
		V 51 - Grading	CY			
		✓ 52 - Civil Utilities	LF			
		 53 - Aggregates and Paving 	SY			
		S4 - Temporary Work	PLS			
		✓ 60 - Deep Foundations	Ea			
		V 61 - Concrete	CY			
		🗸 62 - Metals	Ton			

Design elements configured at the organization level are available to all projects in the organization. For more information, see **Design elements** in organization settings.

When an Account code set is enabled on the project, the Include quantity in the rollup calculation and Available in project options are disabled in the Design elements grid, as the project uses the Design elements tagged to the account codes in the Account code set. For more information, see **Account code set** in the project's General settings.

2.2.1 Steps

You can perform the following actions for Design element setup:

• Available in project - Select which Design elements to make available in the project.

• **Sort** - Select the Design elements, and then click the up or down arrows to the right of the table to adjust the position of a Design element.

2.2.2 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.3 DESIGN TRACKING STAGES

Design tracking stages are used to track how scope quantities change throughout the design process. Design tracking stages are created in organization settings and are available to add to all projects in the organization. For more information, see **Design tracking stages** in organization settings.

You can manage Design tracking stages in the project's settings (Design > Quantity forecasting > **Design** tracking stages tab).

»				QUANTIT	TY FORE	CASTING	ENGINEERING			
0	General Design ele	ement s	etup De	sign tracking stages Attributes a	nd proje	ct values	Component integration	Schedule	Linked engineering projects	Cancel Save
•	D)esi	gn trac	king stages						
*			Position	*Design stage title						
6			03	Select quantity stage	•		\downarrow			
(a) (c) (c) (c)			01	30% Qty		\otimes				
0			02	60% Qty		\otimes				

By adding a design tracking stage to a project, a field is added to the Quantity Items grid and quantity item slide-out panel. Tracking stages can then be imported into the project.

2.3.1 Steps

You can perform the following actions for Design tracking stages:

Add – Click the Select quantity stage drop-down, select a stage from the list, and then click the Add icon.

Remove - Click the Remove icon to the right. You cannot remove Design stages that have been assigned to quantity items.

Sort - Select the Design tracking stage, and then click the up or down arrows to the right of the table to adjust the position of a Design stage.

Design tracking stages created in organization settings become available to add in the project settings for every project in the organization. For more information, see **Design tracking stages** in organization settings.

2.3.2 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

You cannot delete Design tracking stages that are assigned to a project.

2.4 ATTRIBUTES AND PROJECT VALUES

You can configure the criteria for how attributes and project value types are associated to a quantity item and if they are required in a project in project > Settings > Design > Quantity Forecasting > **Attributes and project values** tab. For each attribute and project value, you can configure which one is included, required, and unique.

The following image shows the Attributes and project values tab:

Required and unique fields				
Identify the required field for a quanity item, and the co	mbination of fields that will make	the quantity item unique	э.	
Name	Include	Required (j)	Unique (j	Component (j)
Attributes				
ID				
Account code			\bigcirc	\bigcirc
WBS phase code			\bigcirc	\bigcirc
Discipline				
Work type		Θ		
Cost segment		Θ		
Design element				
UoM				
Ground				
Construction work package		Θ		
Engineering work package		Θ		
Deliverable package		Θ		
Project values				
Area		Θ	Θ	Θ
Construction commodity			\odot	\odot
DemoProject1221	0	0		
Segment		0		
Subsystem		Θ		
System	\bigcirc	Θ		
test JS				
TestProjValueType	<u> </u>			
TestRavali12	Θ	\bigcirc		
Turnover		Θ		
Work classification		\bigcirc		

Include – When you turn the Include option to *On* for a value, the value is made available to select from as optional in quantity items.

Required - When you turn the Required option to *On* for a value, the value is a required attribute on the quantity item. Required fields will show with an asterisk in the project to let you know which fields are required when adding or editing quantity items. Design checks that these required fields are maintained when adding or editing quantity items in the project.

Unique - The Unique toggle lets you set to *On* a combination of fields for setting quantity items uniqueness. For example, if you select System, Area, and Turnover in the Unique setting, then Design does not allow two quantity items to exist in that project with the same System, Area, and Turnover combination. Design checks this unique setting every time a quantity item is added or edited in the project. The field must first be set as required to set it as a unique field. The setting is primarily needed for the integration with InEight Plan to automatically associate Plan components to the quantity items

in Design. The uniqueness of the field eliminates a potential conflict with quantity items during the Plan component sync and association process.

Component - When the Plan component integration is enabled for the project in the <u>Component</u> integration tab, you can configure which values will integrate with Plan components. To turn the Component field to *On*, you must first set the field as required and unique. Unique and Component fields must match.

2.4.1 Attributes

The attribute values are part of the Design application and are used to configure the project's quantity items. All attributes have Include turned to *On* by default. You can change the values for each project.

2.4.2 Project values

You can select which project value types can be associated to quantity items and if they are required in a project. The Project value types have Include set to *Off* by default. The project values are supplemental attributes configured at the organization level. For more information, see <u>Project values</u> in organization settings.

2.4.3 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.5 COMPONENT INTEGRATION

2.5.1 Plan Component Integration

In the Component integration tab, you can enable the integration with InEight Plan components.

»	QUANTITY FORECASTING ENGINEERING
© +	General Design element setup Design tracking stages Attributes and project values Component integration Schedule Linked engineering projects
•	Plan component integration
	Enable component integration with Plan?
 (*) (*)	
	Components Completed Data last refreshed: 12/08/2023 04:07 AM Completed Data last refreshed: 12/08/2023 11:56 PM
 (a) (b) (c) (c)	

Setting the Enable component integration with Plan toggle to On enables the following:

- The Get Plan Components option in the project > Design > Quantity Items > Actions menu.
- The Component column in project > Settings > Design > Quantity Forecasting > Attributes and project values tab. You can configure criteria for how component data is assigned to a quantity item.

Sync components by clicking **Refresh Components** or **Delta Refresh Components**. The status and last refresh date are shown next to the refresh options so you can be informed of when the last refresh was completed.

When you enable component integration with Plan, at least one attribute must be turned to *On* in the project > Settings > Quantity Forecasting > Attributes and project values > **Component** column. For more information, see <u>Attributes and project values</u>.

When components with these attributes are synced from Plan, Design automatically associates the components to the quantity item when a quantity item exists with matching attributes.

The component attributes must match the unique configured attributes. Changes to Component integration settings cannot be saved until these are selected.

2.5.2 Considerations

• You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

2.6 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. You can manage linked engineering projects in project settings (Design > Quantity Forecasting > Linked engineering projects tab).

»				QUANTITY FORECASTING	ENGINEERING				
0	General	Design element setup	Design tracking stages	Attributes and project values	Component integration	Schedule	Linked engineer	ing projects	1
(†) (†)		Linked e	engineering pro	ojects					
			at						
8		Project ID	Project d	lescription	Organization				
		104783	KIE-WM	ATA 4	SE5001 - Kiewit Infrastruc	ture Engineers		P	* *
(a)(b)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)<l< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></l<>									
(

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:

- **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.

DETAILS	QUANTITIES	COMPONENTS	NOTES	
Select one	•	Select one	•	•
OB MHrs/Unit		CB MHrs/Unit		
		650.00		
Commodity		Construction work pac	kage	
Select one	•	Select one	•	
Deliverable package		Engineering work pack	age	
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		
Design Complete				Ţ

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.

2.6.0.1 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 <u>Work</u>

package creation topic.

2.6.1 Steps

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.



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 claiming steps	Shows claiming scheme steps, details, and history. It also lets you claim completion for each scope item.
8	Additional views	Choose whether to view all scope items or only those Assigned to Me.

C	ID 🛒	*Description	*Claiming scheme	Claiming scheme	% Complete	Lead discipline	Scope item	*Scope item	OB qty	Deliverable qty	U
× (154897	Piping Example	Piping	Piping	0.00	Piping	1.00 (i)	Ea		0.00	s
~ (154896	Mechanical Example	Mechanical	Mechanical	100.00	Mechanical	1.00 (i)	Ea		0.00	\$
~ (154895	Process Example - Do	Process CS	Process CS	0.00	Process	1.00 (i)	Ea	1.00	0.00	5
~ (154894	Process Example - Do	Process CS	Process CS	55.00	Process	1.00 (j)	Ea	1.00	0.00	\$
~ (154893	Process Example - Do	Process CS	Process CS	54.99	Process	1.00 (j)	Ea	1.00	0.00	s
~ (154892	Process Example - Do	Process CS	Process CS	62.00	Process	1.00 (j)	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:

		44	ANTITY FORECASTING	Lito	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 ① Scope item / ScheduleGroup									

- Scope item The system captures the first claim date made on the scope item in the Actual start field.
- Scope item / Milestone The system captures the first claim date made on each milestone on a claiming scheme in the Actual start field.
- 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.

Ac	tions	•	• 🗹 🤅							T 🕻		
			ID	*Description	*Claiming scheme	Clair desc	Add scope item					
	~		332364				Summary					^
	~		332357				ID	* Description		* Claiming scheme		
	~		332255							Select one	*	
	~		332254				Scope item qty	* Scope item UoM		Lead Discipline		
							0.00	Each	-			
	~		217635			_	OB qty	Deliverable qty		Deliverable UoM		
	~		135173					0.00		Sht	*	
	~		123799				Deliverable package	Engineering work package		Area		
	~		123798				Select one		-	Select one	*	
	~		123797									
	~		113859				Construction commodity Select one	Segment Select one	-	Subsystem Select one	*	
	~		113858									
							Turnover	Included in schedule?				
	~		113857				Select one	\odot				
	~		113856			-	December					Ŧ
	~		113855				Resources					•
	~		113854			-	User defined					*
	~		113853			-						

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

NOTE If an account code set in enabled for the project, Scope item UoM must match the UoM of account code on the Resources tab. Scope item UoM must also match WBS phase code UoM to claim progress.

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 new scope items</u>
- 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>.

3.3 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:

	Project values	Account code set	Resource types	Milestones	Schedule	Teams	Resources	Control settings	Dates	
Dates										
Enable Scope Item Dates ①										
\bigcirc										
Scope item ()										
O Scope item / Milestone ()										
O Scope item / ScheduleGrou	р 🕕									

- Scope item The system captures the first claim date made on the scope item in the Actual start field.
- Scope item / Milestone The system captures the first claim date made on each milestone on a claiming scheme in the Actual start field.
- Scope item / ScheduleGroup The system captures the first claim date made on each schedule group on a claiming scheme in the Actual start field.

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 () Scope Item / Milestone () Scope Item / ScheduleGroup	Ð								

- 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.

						SCOPE ITEMS	AUDIT	LOG		View: Default			•
A	ctions	•	• 🗹	\otimes						•	C7	C	Q
ш "А			ID		*Description	Edit scope item							(0%) (0%)
m	~		332505		lock - creating n	Summary							^
22	~		332504		Lock function ex	ID		* Description		* Claiming scheme			
ė	~		332503		unlock first- exis			lock - creating new		104783IND		*	
	~		332502		1	Scope item qty	i	* Scope item UoM		Lead Discipline			
	~		332497		A5	30.00		Each	•	Indirects			
	~		332496		A4	OB qty		Deliverable qty		Deliverable UoM			
	~		332492		a3			0.00		Sht		•	
	~	0	332491		a2	Deliverable package		Engineering work package		Area			
	~	0	332490		al	Select one	-	Select one	•	Select one		•	
	~		332467		S13	Construction commodity		Segment		Subsystem			
						Select one	•	Select one	•	Select one		•	
	~		332466		S12	Turnover		Included in schedule?					
	~		332465		S11	Select one	•						
	~		332464		S10								
	~		332463		S9	Resources 🛆							•
	~		332462		S8	User defined							-
	~		332461		S7	Dates							-
	~		332460		S6	Documents							•
	×		332459		S5				ſ	Orneral D		ave and	Class
	Subto	otals	Count : 216							Cancel Save	Sa	ive and	Close

- 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 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>.

3.4 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.

Resources						
Resource type	WBS phase code	Account code	UoM	Design element	Role	Planned team
Civil Engineer	1245	88.40.46.006.04	EA	PERMIT (Ea)		
Civil Designer	1244	88.40.46.006.02	EA	PERMIT (Ea)		
4						•
						•
< Jser defined Dates				_		,
						,

Role	Planned team	Assigned user	% Complete	WBS % Claim Ratio	CE MHrs/Unit	Scope item qty	Scope iten MHrs
			0.00	90.00	16.00	1.00	16.0
			0.00	10.00	144.00	1.00	144.0

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 Design elements 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 <u>Considerations</u> 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.

							View: Default		~
omplete	1	Lead discipline	Scope item	Scope item	OB qty	Deliverable qty	Export scope iten		Q Eng wo
	0.00	Electrical	1.00 (i)	LF			Export scope item data		
	0.00	Electrical	1.00 (j)	Ea			Export claiming Export schedule t	amalata	
	0.00	Electrical	1.00 (j)	Ea			Export schedule t		
	50.00	Electrical	1.00 (j)	Ea			0.00 Sht	predu template	1
1	10.00	Electrical	1.00 (i)	Ea			0.00 Sht		
	0.00	Electrical	1.00 (j)	Ea			0.00 Sht		
	0.00	Electrical	1.00 (j)	Ea			0.00 Sht		
	0.00	Electrical	1.00 (j)	Ea			0.00 Sht		
	0.00	Electrical	1.00 (i)	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	G				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	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
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 (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.

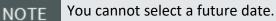
3.6.3 Steps

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				CLAMPIC .						
	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		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 LO	DG				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 (i)	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
cta	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(tct steps Revie	2 ew steps									
For part partial c	ion will update the claimed qty on al claiming steps the "New claim laiming step was not previously or r 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	ited to the New scop t will be complete ba	e item qty amount. sed on qty specifie	lf the d in
Claim d	ate	*Cause code		Note						1	
04/18	1/2022	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	٦
1	Start Activity		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	Generate Deliverable/Model		100.00	1.0000000	100.00%	100.00	100.00%	99.00			
	Check for IFR		100.00	1.0000000	100.00%	100.00	100.00%	99.00			
4	CHOCK IVE IPA					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 Update scope item quantity by import

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
0	14328	Electrical Engineering L	2

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

This acti	cope items on will update the clai	Select steps	claimed step for the selected sc	ope items.				
Only thos	se scope items impor	de on on each step to capture the q ted with no other errors will be disp	layed to select in the grid below.	If any other errors exist on in	nported scope items, the	n the		
scope ite	rms will need to be co	rrected individually through the erro	or resolution grid in order to upd	ate the scope item qty and ac	ijust claiming.			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	0	•	-
	14329	Electrical Designer Lead	45.00	55.00	04/19/2022			
	14333	Inverter and MV Transform	1.00	2.00	04/19/2022	0		
								_

- 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)-		2										
Select scope it		elect st		claimed aten for th	e selected scope	a itama. An addition	al claim will be made	on on each sten	to capture the cturd	alta		
For partial claim	ing steps the "New	claim q	ty" will be editable fo	r further claiming as	justments. If the	e partial claiming st	ep was previously cor	mplete, then the M	vew claim gty will be	defaulted to the I	New scope item	gty amount. If
the partial claim	ing step was not p "New claim qty" fie	revioush	complete, then the	New claim qty will b	e defaulted to th	e Claimed to date a	mount. The "New clai	im qty %" reflects	the percentage of th	e step that will be	complete base	d on qty
												C
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	Claimed by
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		
14333			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 LO	0					
	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
Scope item	ClaimingScheme	Export Claiming Scheme Tem	A Completed with errors	1	0	1	0	0		06/20/2022 12:4	06/20/2022 12:4
Claiming history	Schedule	Export Schedule Template (1	8 Failed	1	0	1	0	0		06/17/2022 04:1	06/17/2022 04:1
Import history	Schedule	Export Schedule Template.xisx	Completed	1	1	0	0	0		06/15/2022 11:1	06/15/2022 11:2
Scope item quantity history	Schedule	Export Schedule Template.xlsx	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 0123 EW BSTR	Resolv • ID	e claim	iing scheme		Descrip	tion		• Lea	d Discipline		
	01238	W BSTR		<u>h</u>	Bridg	e Structures - Early Wo	rks	Stru	uctural		
	`						STEPS				
		*Step	*Step name	+% Claim	Partial claim	*Resource type	•Resource Discipline	Milestone Completion	•Schedule group	*Activity ID format	
		12	Enter step name	Enter % ci	0	Select resourc		Select milestone	Select sche	Select acti	
	0	1	Final Design Development	5 0		Structural Engineer	Structural		RD	AccountCode/	⊗ ˆ
		2	Final Design Development	5 0		Structural Engineer	Structural		RD	AccountCode/	\otimes
		3	Final Design Development	5 0		Structural Engineer	Structural		RD	AccountCode/	\otimes
	0	4	Final Design Development	5 0	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/	⊗
			Sub	ototal:50.000%	0						

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

			SC	OPE ITEMS	AUDIT LOG			
								Q
Scope item	Scope item ID	Scope item escription	Scope item 🚽	Scope item 🚽	Cause code	Note	Changed by	Changed =
Claiming history	1829	CSIE ELECTRICAL Ch	1.00000000000	0.00000000000	Sample		-	04/27/202
mport 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

3.14 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.

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.

Overview - Actions

					SCOPE ITEMS	AUDIT LOG		View: JS View	
Actions	•	⊕ Ľ	٢					Υ.	D D
Configure claiming schemes Configure work packages		-	*Description	*Claiming	Claiming scheme	% Complete 🛒	Compliance	Lead discipline	
Configur	re project	values		Piping Example	Piping	Piping	0.00		Piping
Unlock Scope			Mechanical Example	Mechanical	Mechanical	100.00		Mechanical	
Role ass	ignment			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

3.14.1 Considerations

You must have applicable permissions in Engineering.

3.15 ASSOCIATE DOCUMENTS

3.16 ASSOCIATE DOCUMENTS OVERVIEW

You can associate scope items and documents to support status and progress reporting on deliverables. Go to project > Engineering > Scope Items > Actions, and then click Associate documents to open the Associate documents page.

					SCOPE ITEMS	AUDIT LOG
Actions	•	• C	\otimes			
Associa	ite docum	ients				/ Scope is ur
-	re claimin re work p	ng schemes ackages	-	*Description	*Claiming	Claiming schem description
Configu	re project	values		ID * Description	104783IND	Indirects
	et FC Remaining MHrs/Unit ock Scope			e	104783IND	Indirects
	Lock Scope Role assignment			d	104783IND	Indirects
Run rep	-		•	PIDS CO Sheladia STR	PIDS CO Building 3 Step	PIDS CO Buildin
~		123798		PIDS CO Sheladia STR	PIDS CO Building 3 Step	PIDS CO Buildin
~		123797		PIDS CO Sheladia STR	PIDS CO Building 3 Step	PIDS CO Buildin
~		🗀 113859		PIDS CO Sheladia EW	PIDS CO Systems Proje	PIDS CO System
~		🗀 113858		PIDS CO Sheladia AR	PIDS CO Building 3 Step	PIDS CO Buildin
~		113857		PIDS CO Sheladia AR	PIDS CO Building 3 Step	PIDS CO Buildin
~		113856		PIDS CO Sheladia AR	PIDS CO Building 3 Step	PIDS CO Building

In the Associate documents page, you can view the Mappings and Documents tabs.

3.16.1 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 InEight Document, you must have the applicable InEight Document permissions.

3.17 MAPPINGS

The image and table below are a summary of the Mappings tab:

Scope	items	1				5 _O A	ito hide mapped		ments	2			5	Auto hide mappe	
K M	ap scope it	24					6	X M	lap docume	∝ & 4 5 7					
	8	ID =	Description	Document count 9	% Complete	Lead discipline 🚽	Engineering work package		8	Document	Title 👻	Scope item	Revision	Status	Discipli
0	×	165182	QA2	2	0.00	Architectural		•	*	@#SS#S#	W#3423	2	10	VDR	PD
0	×	165181	QA1	1	0.00	Architectural		0	23	1349_DOC	1349_Doc	1	в	VDR	CNST
0	×	165180	TEST2	1	0.00	Building	test - test	0	23	1353_DOC	1353Doc	1	c	IFI	GEN
0	×	165179	TEST1	1	0.00	Indirects		0	*	234234234234234	234234234234234	1	A	IFC	BLDG
0	ø	123799	PIDS CO Sheladia		63.85	Building		0	*	33332	SS title	1	10	WTH	ELE
0	ø	123798	PIDS CO Sheladia		52.35	Building		0	×	33335	test tilte	2	A	IFI	CNST
0	8	123797	PIDS CO Sheladia		63.85	Building		0	8	33336	SS test1		10	WTH	STR
0	8	113859	PIDS CO Sheladia		99.85	Systems		0	8	33337	test doc		A	AB	GEN
0	8	113858	PIDS CO Sheladia		99.85	Building		0	8	55555	bug validation		00	PLH	GEN
0	ø	113857	PIDS CO Sheladia		99.85	Building		0	8	66666	feb01		в	IFI	CNST
0	8	113856	PIDS CO Sheladia		99.85	Building		0	8	CALDOC	Testing_Document		A	IFC	CIV
0	8	113855	PIDS CO Sheladia		99.85	Building	test - test	0	8	D1-PLM1	D1-PLM1		в	VDR	CNST
0	8	113854	PIDS CO Sheladia		99.85	Building		0	8	D1-PLM2	D1-PLM2		в	VDR	CNST

	ltem	Description
1	Scope Items grid	The left grid shows the project's list of scope items.
2	Documents grid	The right grid shows the list of documents synced from Document.
3	Map many documents to a single scope item Map many scope items to single document	Select to map many documents to a single scope item, or many scope items to a single document.
4	Map scope item and Map document Unlink scope items or documents	After making your selection, you can map documents to a scope item or map scope items to a document. After making your selection, unlink scope items or documents.
5	Auto hide mapped	Auto hide mapped scope items or documents to filter them out from the grid.

	ltem	Description
6	Search	Use to search scope items in the Scope items grid or search documents in the Documents grid.
7	Document sync	Sync existing, new, and updated documents from the Document application. Synced documents will show in the Associated documents page. The Last synced status is shown on the lower right side of the panel.
8	Mapped and unlinked items column	View of mapped and unlinked items. Mapped items show a green mapped icon. Unlinked items show the Unlink icon.
9	Document count Scope item count	In the Scope items grid, the Document count column shows the number of documents mapped to a scope item. In the Documents grid, the Scope item count shows the number of scope items mapped to the document. The number is a hyperlink you can click to open a dialog box that shows the list of associated items.

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

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

3.18 DOCUMENTS

In the Documents tab, you can view a summary of documents associated to scope items to easily track associated items, provide real time updates, and export data.

	Socument / Scope item	Status /	# of scope	% Complete	CE total -	Earned MHrs	Forecast remaining MHrs	Planned -	Planned -	Current -	Current	Actual	Actual finish
)	√1349_DOC - 1349_Doc	VDR	1	0.00	110.00	0.00	0.00			▲		11/29/2023	
)	√1353_DOC - 1353Dec	IFI	1	0.00	38.50	0.00	۵	۵	Δ	۵			
)	√234234234234234 - 234234234234234234	IFC	1	0.00	385.00	0.00	۵	۵	۵	۵		11/28/2023	
)	√ 33332 - SS title	WTH	1	۵	۵	۵		11/05/2023	12/13/2023	12/13/2023	۵		
)	∧ 33335 - test tilte	IFI	2	99.86	772.38	771.32	0.43	12/10/2023	12/13/2023	12/11/2023	12/13/2023	03/04/2023	
	PIDS CO KIE IT and NT SYS Integration - D03 Lef	IFC Submittal		99.85	700.05	698.99	0.43	12/10/2023	12/11/2023	12/11/2023	12/12/2023	03/04/2023	
	PIDS CO KIE EW SYS Integration - Lead Responsi	Scope Complete		100.00	72.33	72.33	0.00	12/12/2023	12/13/2023	12/12/2023	12/13/2023	03/25/2023	03/25/202
)	33336 - SS test1	WTH											
)	33337 - test doc	AB											
)	55555 - bug validation	PLH											
)	66666 - feb01	IFI											
)	CALDOC - Testing_Document_Upload	IFC											
)	D1-PLM1 - D1-PLM1	VDR											
)	D1-PLM2 - D1-PLM2	VDR											
)	D1-PLM3 - D1-PLM3	VDR											
)	D2-PLM1 - D2-PLM1	VDR											
)	D2-PLM2 - D2-PLM2	VDR											

The Documents tab functions similarly to the work package feature, such as the percent complete column, the warning icon that shows when there are missing values, and the summary overview of all documents in the document register at the bottom of the window. The scope item;s data that's associated to a document is aggregated and a summary of percent complete, hours, and min/max dates are shown per document. Additional features include:

- When scope items are associated to a document, you can expand the document to view the associated scope items.
- When multiple scope items are associated, the system aggregates the percent complete, hours, dates. The earliest start date and the latest end date are captured at the document level.

3.19 MAP DOCUMENTS AND SCOPE ITEMS

You can map one to multiple documents to a scope item and map one to multiple scope items to a document. Use the toggle at the top right to switch between the two options.

Scope items			uto hide mapped	Q	Docur	nents		O Auto hide r	mapped Q
🔀 Map scop	e item 🔗				\$% M	ap documer	nt 🔗 I 💭		
	ID 🛒	Description	Document count				Document	Title	Scope item count
o 😪	332364	Desc1	1	-		æ	00001-TE-ELE-1	Electrical shop draw	^
	332357		1				2345		
~ ~					-	\$			

3.19.1 Considerations

You must have the required permissions in Engineering for document association.

3.19.2 Steps

Map documents to scope items

- 1. Click Map many documents to a single scope item at the top right of the page.
- 2. Select a single scope item in the Scope items panel, and then select one to multiple documents in the Documents panel.
- 3. Click the **Map document** button in the Documents panel to complete the mappings. The green linked icon will show next to the scope item indicating that it has been mapped.

Map scope items to documents

- 1. Click **Map many scope items to single document** at the top right of the page.
- 2. Select a single document in the Documents panel, and then select one to multiple scope items in the Scope items panel.
- 3. Click the **Map scope item** button in the Scope items panel to complete the mappings. The green linked icon will show next to the document indicating that it has been mapped.

3.20 VIEW ASSOCIATED ITEMS

You can view items that are associated with Scope items and Documents. Click the Document or Scope item count number to open the Associated Items dialog box.

Scope items							Docur				Auto hide m	apped	C
2X2 M	ap scope it	em 🔗					2% M	ap docume	nt 🔗 💭				
		ID 👘	Descrip	Document count 🛛 👳	% Complete 🚽	Lead di			Document -	Title 👳	Scope item count 👘 👳	Revision	
۲	**	113849	PIDS CO KIE	5	36.00	Syster		**	00KM06082021-010	Build Acceptance Docu	8	A	Î
0	84 -	113848	PIDS CO KIE	5	100.00	Syster		**	00KM06112021-007	21.05.00 Build Acceptan	8	с	
0	83	113847	PIDS CO KIE	1	47.50	Syster		**	00KM06112021-008	21.05.00 Build Acceptan	8	с	
0	**	113846	PIDS CO KIE	5	47.50	Syster		**	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	**	00KM06242021-002	Role Test 2	8	A	
0	**	113843	PIDS CO KIE	5	0.00	ESDC		**	00KM07152021-003	21.05 Regression VDR B	8	A	
0	*	113842	PIDS CO KIE	5	52.13	Indirec	0	\$3	00KM09162020-001	00KM09162020-001	9	A	

3.20.1 Scope item's document count column

In the Scope items panel, the Document count column shows the number of documents associated to scope items. Click the document count hyperlink to open the Associated Items dialog box.

	×
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
1001100110011001)))))))))))))))))))))))))))))))))))))))

- **Document number** The document number from Document as a hyperlink. Click on the hyperlink to open in Document.
- **Title** The title of the document.

• View in grid - Filter the scope items and view them in the Scope items grid. You can click the **Document number** link to open the associated document in Document.

3.20.2 Document's scope item count column

In the Documents panel, the Scope item count column shows the number of scope items associated with Documents. Click the scope item's hyperlink to open the Associated Items dialog box.

	×
Associated Items	View in grid
Scope Item ID	Description
113848	PIDS CO KIE EW SYS Integration - Lead Responsib
	•

- Scope Item ID Unique identifier for the scope item.
- **Description** Unique description for the scope item.
- View in grid Filter the documents and view them in the Documents grid.

3.20.3 Considerations

You must have the required permissions in Engineering for document association.

3.21 UNLINK ASSOCIATED ITEMS

You can unlink associated items from scope items and documents.

Scope	items			O Auto I	hide mapped Q Docum	ents	Auto hid	le mapped
		er B			Ster Mag	o document 🔗 🛛 💭		
		ID -	Remove	mapping				×
	2	270794		Document number	Title	Scope item ID	Scope item description	
	2	270793		SINGLEDOC1	testing doc	270791	Test2	^
۲	*	270791		SBXTESTING_1	SBXTESTING_1	270791	Test2	
		270790		RS12102021.002XL	R\$12102021.002xl	270791	Test2	
	*			RS12102021.001XL	R\$12102021.001xl	270791	Test2	
	**	259214		RS09192023.004	RS09192023.004	270791	Test2	
	88	249207		RS09192023.003	RS09192023.003	270791	Test2	
	23	249206		RS09192023.002	RS09192023.002	270791	Test2	
	**	123799		RS09112023.003	RS09112023.003	270791	Test2	
	23	123798						Ť
	**	123797					Cancel	Confirm

3.21.1 Considerations

You must have the required permissions in Engineering for document associations.

3.21.2 Steps

Unlink associated items

- 1. To unlink documents from a scope item, select **Map many documents to single scope item**. To unlink scope items from a document, select **Map may scope items to single 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**.

3.22 CONFIGURE CLAIMING SCHEMES

3.22.1 Summary

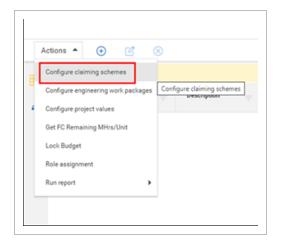
A claiming scheme is a sequence of steps and milestones used to record progress of engineering deliverables called scope items. Steps and milestones are assigned a completion percentage based on

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**.



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

3.22.2 Considerations

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

3.23 ADD A CLAIMING SCHEME MANUALLY

3.23.1 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.

3.23.2 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.

3.23.3 Steps

To add a claiming scheme manually:

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

	8 B											3	1
0	Claiming scheme / S	Add claiming sch	eme										
Discipline: Civil		* ID			Description				Lead Disciplin	e			
0									Select one				*
0							STEPS						
0													1
0		*Step	"Step name	*% Claim Enter % claim		*Resource type	*Resource Discipline	Milestone Completion		chedule group	*Activity ID format		
0		1	Enter step name	Enter % claim		Select resource type 💌		Select milestone	¥ 5	Select schedule gr 👻	Select activity ID format 👻		
0						No steps exist on the	e claiming scheme.						
0													
0													
0													
0													
0													
				Subsetal 0.000%									v
				Subsetal 0.000%									v

- 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.

3.23.4 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> <u>claiming scheme</u>.

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

3.24 COPY A CLAIMING SCHEME

3.24.1 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.

3.24.2 Considerations

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

3.24.3 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.

ÐĽ	÷	\otimes											9	α
	Clai	ning scheme / S	Copy cla	iming sche	me									
Niscipline: Civi			• ID				Description			* Lea	d Discipline			
										Sei	lect one			*
0									STEPS					
0				*Step	"Step name	*% Claim	Burged at large	*Resource type	"Resource Discipline	Milestone Completion	"Schedule group	*Activity ID format		Î ↑
0				"Step	"Step name	=% Claim Enter % claim	Partial claiming	*Resource type Select resource type -	"Resource Discipline		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	× 1	
0			0	2	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					Update template files with project specific								8	
0			0	4	information.	10.000		Civil Engineer	Civil		AA	Account Code/Area/Wor		
0			0	5	Prepare applicable attachments.	10.000	2	Civil Engineer	Civil		AA	Account Code/Area/Wor	8	
0			0	6	Check for IFR	5.000		Civil Engineer	Civil		AA	Account Code/Area/Wor	\otimes	
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	⊗ .	
0					Subt	otal:100.000%								
0														
0														Save

- 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.

3.24.4 Related links

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

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>.

3.25 IMPORT CLAIMING SCHEMES

3.25.1 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.

3.25.2 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.

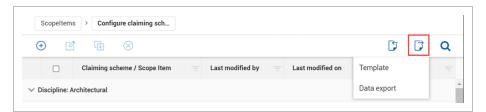
You can only import new claiming schemes, not edit existing ones. To edit an existing claiming scheme on the Configure claiming schemes page, select a claiming scheme, and then click the **Edit claiming scheme** icon.

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.

3.25.3 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	В	C	D	E	F	G	H
1	REQUIRED	Field is required for import						
2	OPTIONAL	Field is optional for import						
3	IGNORED	Field not to be populated						
	Note:							
		ality only allows for now Claiming	Schomor to	ho cro	ated. Existing Claiming Schemes can be updated using the edit button.			
		field should be specified as either			ated. Existing claiming schemes can be updated using the edit button.			
					gets inherited from the Resource type assignment.			
	ID		Lead Discipli			% Claim	Partial claiming	Resource type
	0123 EW BSTR	Bridge Structures - Early Works		1		5.000	True	Structural Engineer
	0123 EW BSTR	Bridge Structures - Early Works		5	0	5.000	False	Structural Engineer
	0123 EW BSTR	Bridge Structures - Early Works		5		5.000	True	Structural Engineer
	0123 EW BSTR	Bridge Structures - Early Works		3		5.000	False	Structural Engineer
				4		5.000		
	0123 EW BSTR	Bridge Structures - Early Works		5			True	Structural Engineer
1	0123 EW BSTR	Bridge Structures - Early Works	Structural	6	Final Design Development Bridge Structures- Coordination with Track and Systems C		False	Structural Engineer
12	0123 EW BSTR	Bridge Structures - Early Works	Structural	7	Final Design Development Bridge Structures- 65% Step	5.000	True	Structural Engineer
3	0123 EW BSTR	Bridge Structures - Early Works	Structural	8	Final Design Development Bridge Structures- Jacking Sequence Finalized	5.000	False	Structural Engineer
4	0123 EW BSTR	Bridge Structures - Early Works	Structural	9	Final Design Development Bridge Structures- 95% Step	5.000	True	Structural Engineer
5	0123 EW BSTR	Bridge Structures - Early Works	Structural	10	Final DQCP 01 - Self Checks Complete	3.000	False	Structural Engineer
	0123 EW BSTR	Bridge Structures - Early Works	Structural	11	Final DQCP 01 QC Disciplinary Review	2.000	True	Structural Engineer
b		Scheme (+)						

- 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	
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.

3.25.4 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.

3.26 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**.

Opposite Opposite	۲	r (8												C C
Mathematic 60/01/200 Mathematic D Batility 64/01/200 Parries		*Display ID	Construction	Discipline	# of scope items 🚽	% Complete 🚽	CE total MHrs 👘 👳	Earned MHrs	Forecast remaining MHrs	Planned start	Planned finish	Carrent start	Current finish	Actual start
D 2809 0401000 Ppmg	0	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										
10000000 0000010000 0000000 1000000 1000000	0	Plains	09/01/2023	Piping										
)	EMP	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.

- 601	pelterns > Configure w	ork packages				ENGINEERING WORK PAC	KAGE DELIVERABLE					
•	e 🛞											D D
	*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	06/30/2023	05/23/2023
	Pieing	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

3.26.1 Considerations

You must have the applicable permissions in Engineering.

3.27 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 finish date will show the latest date from the

Overview - Work package overview page

Overview - Work package overview page (continued)

	Title	Description
		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 • Actual start/finish

Overview - Work package overview page (continued)

Title	Description
	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.

			0	VERVIEW	-				_				-		
Overview of test package	1		% Complete	Hours	-3-		Dates	-4)		Mi	lestones	-6		1
Type	* Display Id						Planned star	1	05/22/2023				Current start	Current fi	finish
Deliverable package	test								07/27/2023						
Description	Activity code						Planned finit				IFC	-Issue for Con.	. 04/03/2023	06/30/20	023
test package	ScheduleActivity1		11.63%	2,417 brs		2,136	Current start		04/03/2023		IFIF	R-Issue for Inte	. 05/29/2023	06/16/20	023
lotes						hrs	Current finis	h	10/31/2023		IFR	Issue for Revi	. 06/19/2023	10/31/20	023
					281 bra		Actual start		05/23/2023						
Construction need by date	Discipline			CE	Earned	Remaining	Actual finish				11				
07/01/2024	Electrical	*													_
		Cancel Save	≎≡				2023						2	024	
Remaining steps 6	Teams 7		Scopeltern	Lead Discipline	Current start	Current finish	Apr	May .	Jun Jul	Aug	Sep	Oct Nov	Dec J	an Feb	
itep 1	Process Design Team		✓ <u>154896-Mechanical Example</u>	Mechanical	05/23/2023	06/30/2023		-	-						
sue for Construction cope item: Mechanical Exa 0.00%	1 scope items	100.00%	✓ 154895-Process Example - Doc 4	Process	04/03/2023	10/31/2023	_					_			
Assigned team: Assigned to:															
Issue IFIR	Process Engineer Team						1								
sue for Internal Review cope item: Process Exampl 0.00%	1 scope items	6.25%													
ssigned team: Process Engl															
	Unassigned														
eview 🖉	1 scope items	0.00%													
leview ssue for Review															
Review Issue for Review) (_			

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.

	OVERVIEW						
nplete E	Edit scope item						
s	ummary						
	D		* Description		* Claiming scheme		
	154895		Process Example - Doc 4		Process CS		
0	cope item qty	(i)	* Scope item UoM		Lead Discipline		
	1.00		Ea	*	Process		
)B qty		Deliverable qty		Deliverable UoM		
	1.00		0.00		Sht	•	
	Deliverable package		Engineering work package		Area		
m	test	-	Process	-	Select one	*	
5	Segment		Turnover		Work classification		
15-Process Exa	Select one	•	Select one	*	Select one	*	
R	lesources 🛆						
U	iser defined						
D	lates						

3.27.1 Considerations

You must have the applicable permissions in Engineering.

3.28 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.

3.28.1 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.

	Position	*ID	*Description	Activity code		
+	28	Enter ID	Enter description	Enter activity code		
	01	09L	D09 Minnesota Avenue Laydown	09L	8	
	02	10L	D10 Deanwood Laydown	10L	\otimes	
	03	111	D11 Cheverly Laydown	11L	\otimes	
	04	12L	D12 Landover Laydown	12L	\otimes	
	05	13L	D13 New Carrolton Laydown	13L	\otimes	
	06	CBL	Cheverly Bridge Laydown	CBL	⊗ .	,
	assification Ible 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.

3.29 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
ctions	•	•			
Configure claiming schemes Configure work packages		*Description	Claiming scheme description		
Configu	e project	values	Piping Example	Piping	Piping
Unlock !	icope		Mechanical Example	Mechanical	Mechanical
Role as:	ignment		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
~		154892	Process Example - Do	Process CS	Process CS

3.29.1 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.

3.30 ROLE ASSIGNMENT

3.30.1 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.

3.30.2 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	•	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.

3.30.3 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.
- 2. 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.

	issignment				CL	ASSIGNME		USER ASSI HISTO					
	Resource type / Role	Planned team		Assigned user	Start date	Eni	i date	Total scope items	Scope items remaining	Total steps	Steps remaining	Note	
€	Systems Communications												
٨	Systems Communications 1				06/07/2021			0	0	0	0		8
•	Structural Engineer												
۸.	Structural Engineer 1				06/07/2021			0	0	0	0		8
Ð	Architectural Landscaping												
٨	Architectural Landscaping 1				06/07/2021			0	0	0	0		8
Ð	Systems Traction Power												
٨	Systems Traction Power 1				06/08/2021			0	0	0	0		8
•	Systems FLS												
٨	Systems FLS 1				06/07/2021			0	0	0	0		8
÷	Drainage Engineer												
2	Drainage Engineer 1	Water	Θ	Brian (06/07/2021			0	0	0	0		8
•	CES												
٨	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.

3.30.4 Related links

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



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

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

The following image and table give an overview of each section of the Quantity items page:

*ID	- Description		-	Forecast (TO) 6	*Discipline	*Design element	*Account code	Account code	WBS phase
3729367		LF		423.00	Electrical	Ductbank	81.03.08.016.02	Underground Duct b	1005
3392370		CY		423.00	Grading	Mechanical & Electri	51.18.02.002	Mechanical and Elec	1005
3392366		PLS		122,784.00	Metals	Specialty Metals Wo	62.99.02	Specialty and Uniqu	1005
3392365		LF		122,784.00	Electrical	Grounding - Cable	81.30.02.002	Underground Groun	1005
3392364		PLS		1,820.00	Electrical	Substation Bus - PLS	81.63.12	Substation Bus	1005
3392363		LF		2,350.00	Electrical	Overhead T/D String	81.60.01.004.04	Overhead Transmiss	1005
3391039		LF		41,272.00	Electrical	Wires and Cabling	81.09.02	Wire and Cable Pulli	1005
2510248	test	CY		403.00	Concrete	Place/Wet Finish/Cu	61.06.02.006.08	Cast in Place Walls,	1005

Overview - Quantity items page

	Title	Description
1	Actions menu	Do any of the following: • Get Control unit rates • Run report • Lock and unlock scope • Quantity change notes
2	Quantity item buttons	Add, edit, and delete quantity items.
3	Hide archived	When a quantity item is set to archived and the toggle is turned to <i>On</i> , the quantity item will no longer load nor show in the grid to improve project load

Overview - Quantity items page (continued)

	Title	Description
		performance. You can make the archived items show by turning the Hide Archived toggle to <i>Off</i> . When turning the toggle to <i>Off</i> , the items marked as archived will load. The toggle is set to <i>On</i> by default.
4	View	Select, save, rename, and delete views.
5	Upper right toolbar icons	 Data conflicts - Show whether conflicts exist. Create Query Filters - Open the query builder. Import and Export - Import and export sets of data. Row density lets you adjust the spacing of grid rows Find lets you search quantity items.
6	Quantity items	Grid showing quantity items and related information organized by column.
7	Column chooser	Select which columns are shown or hidden.

4.1.1 Considerations

You must have Level 3 – Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.

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>⊙</u> . Ľ ⊗										A• 7 D	C) 13	a 🛛
	*ID 💿	Description	'UoM	qty	*Discipline	*Design element	*Account code	Account code description	*WBS phase code	Add quantity item				
0	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		- 1
כ	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	CY	297.30	Concrete	Place/Wet Finish/Cu	61.03.06.002.08	Slab on Grade 0-1' T	1077			Select one	*	
כ	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	cr	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		
0	8070	Slab on Grade 0-1' Thick - Place / Finish / Cure-028-CT	CY	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-028-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-03B-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	Component Qty	Installed qty
8	45609		CY	158.00	Component Qty					∓ <u>158.0</u>	0.0
8	45605		Ea	24.00	Component Qty				8	¥ 24.0	2 0.0
	45604		UF	19.37	Component Qty					¥ <u>19.3</u>	. 0.0
	45603		UF	13.73	Component Qty					¥ <u>13.7</u>	2 0.0
	45602		Ea	1,905.00	90% Qty	0.00		4 1,905.00		1.905.0	2 0.0
8	45601		SF	20.16	Component Qty					¥ 20.1	2 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**.

			QUANTIT	Y ITEMS ROL	LLUP VIEW	AUDIT LOG	,	View: Default	+
A	ctions 🔻 🕒	C 8						Y D D	t≡ Q
	*ID	Description	*UoM 👳	Forecast (TO)	*Discipline 👳	*Design element 👘 👳	*Account code	Template	*WBS phas code
0	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
	2282132	5	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
	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
0	2282129	8	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
0	2282128	9	PLS	1.00	Removals and Demo	Operational Support	50.03	Civil Demolitions	2587
0	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
	۵.	QuantityItem04182023073957	O In progress	0	Julio Salguero	04/18/2023 12:39:00 PM
Integration	*	QuantityItem04182023040922	Completed	39,864	Jakob Sjuts1	04/18/2023 09:09:00 AM
Import 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
	Δ.	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.

4.5 ACTIONS

In the Quantity Items page, you can perform various actions on a project. The table and image below shows the available actions:

Overview	Actions
Overview -	ACTIONS

Action	Description
Get Control unit rates	Update the OB MHrs/Unit, CB MHrs/Unit, CE MHrs/Unit, and Forecast Remaining MHrs/Unit on the Quantity Items with current rates from InEight Control. For more information, see Get Control unit rates.
Run report	Run the Design Activity Report in a new tab. For more information, see Run report.
Get Plan components	Sync the components from InEight Plan to Design and then have the system auto-associate the Plan components to the Quantity Items in Design based on the Component Rollup configured in the project settings.For more information, see Get Plan components.
Lock and Unlock scope	Lock and unlock scope on a project.A warning will show when scope is unlocked that reads " <i>Scope is unlocked</i> ". For more information, see Lock and unlock scope.
Quantity change notes	Create notes to capture quantity change by discipline on a project. You can assign a Discipline, Design Element, Quantity, Cause Code, and Tags to a Quantity Change Note. For more information, see Quantity

Overview - Actions (continued)

Action	Description
	change notes.
	change notes.

4.5.1 Considerations

- You must have applicable permissions in Quantity forecasting.
- OB MHrs/Unit, CB MHrs/Unit must be setup in Project settings.

4.6 GET CONTROL UNIT RATES

You can update the OB MHrs/Unit, CB MHrs/Unit, CE MHrs/Unit, and Forecast Remaining MHrs/Unit for quantity items with current rates from InEight Control. This lets you use the latest budget unit rates from Control multiplied by the latest forecasted Design quantity to understand the impacts to man hours on the project.

			QUANTITY ITE	MS ROLLUF	P VIEW AI	JDIT LOG			View	Default	
Actions 👻 (⊠ ⊗								7	'B D t≡	
Get Control unit rates	Get OB MHrs/Unit		Discipline 🔫	Design element 👘	Account code	Account code escription	WBS phase code	WBS description	OB qty 👘	Quantity driver	CE
Run report Get Plan components	Get CB MHrs/Unit	3,557.00								Component Qty	
Unlock budget	Get CE MHrs/Unit	5.00								CB qty	Ŧ
10161	detro remaining miniaronic	0.00		Backfill Flatwork						Component Qty	
10154	test component	5.00			00	Overhead				CB qty	*
10153	test	5.00								CB qty	I

With Quantity Items tagged with a WBS from Control, the action lets you select which cost items to update the unit rates in Design. Control then shows the current unit rate applied in Design, the pending unit rate from Control, when the unit rate was last updated, and who performed the last update. Unit rates are never updated automatically with InEight Control unit rates. You must go through the Get Control unit rates action to update the rate applied to a Quantity Item.

4.6.1 MHrs Delta columns

The MHrs/Unit delta and MHrs Delta columns let you see any MHrs/Unit or MHrs change before applying the Pending Control Unit Rate. This is a read-only field that shows the difference between the

total MHrs of quantity items with like WBS calculated using the current Quantity Forecasting rate and the total MHrs calculated using the Pending Control rate.

\sim								
(1)	2							
Select Cost Items	Get Unit Rate	28						
WBS phase code	Description	Current Rate	Pending control rate	Manual Rate	MHrs/Unit Delta	MHrs Delta	Last update	Updated by
1007	KIE-Design	39.34769230	39.34769230769		0.00000000	0.00000000	03/22/2024	Mamatha R
1013	KIE-Project	38.12413793	38.12413793103		0.00000000	0.00000000	02/09/2024	Jakob Sjuts1
1014	KIE-Enginee	37.66146993	37.66146993318		0.00000000	0.00000000	02/09/2024	Jakob Sjuts1
1016	QTO-Manag	0.00000000000	0.0000000000		0.0000000		02/09/2024	Jakob Sjuts1
1017	QTO-Demo/	0.0000000000	0.0000000000		0.00000000	0.00000000	02/09/2024	Jakob Sjuts1

The Manual Rate column lets you specify a manual CE MHrs unit rate for a WBS phase code, while still allowing other WBS phase codes to function off the unit rate from Control.

1)	2							
Select Cost Items	Get Unit Rate	es						
					MHrs/Unit			(
WBS phase code	Description	Current Rate	Pending control rate	Manual Rate	Delta	MHrs Delta	Last update	Updated by
1007	KIE-Design	39.34769230	39.34769230769	45.	5.65230769	0.00000000	02/09/2024	Jakob Sjuts1
1013	KIE-Project	38.12413793	38.12413793103		0.00000000	0.00000000	02/09/2024	Jakob Sjuts1
1014	KIE-Enginee	37.66146993	37.66146993318		0.00000000	0.00000000	02/09/2024	Jakob Sjuts1
1016	QTO-Manag	0.000000000	0.00000000000		0.00000000		02/09/2024	Jakob Sjuts1
1017	QTO-Demo/	0.00000000	0.0000000000		0.00000000		02/09/2024	Jakob Sjuts1

4.6.2 Get FC Remaining MHrs/Unit - Manual Rate column

The Manual Rate column in the Get FC Remining MHrs/Unit dialog box. This column lets you specify a manual FC Remaining unit rate for a WBS phase code, while still allowing other WBS phase codes to function off the unit rate from Control.

elect Cost Items	Get Unit Rat	es						
WBS phase code	Description	Current Rate	Pending control rate	Manual Rate 📍	MHrs/Unit Delta	MHrs Delta	Last update	Updated by
1006	Mech/Elec	0.08493639466	0.0000000000	1	-0.0849363	0.00000000	05/04/2022	Mason Green

4.6.3 Considerations

- You must have Level 3 Account Admin permissions in InEight Platform or a role with the applicable permissions in Quantity Forecasting.
- Get OB MHrs/Unit and CB MHrs/Unit options must be setup in Project settings.

4.7 GET PLAN COMPONENTS

You can sync the components from InEight Plan to Design to let your Quantity Item Forecast (TO) quantity to be driven by the component quantity directly from Plan. The system automatically associates the integrated Plan components to the quantity items in Design based on the project settings for required and unique attributes and project values.

To navigate to Get Plan components, go to the projects home page > Design > Quantity forecasting > Quantity Items > **Actions**.

Actions 🕶 🕒	₫ ⊗			
[Get Control unit rates)escription 📼	*UoM	Forecast (TO)	*D
Get Plan components		LF	526.74	S
Unlock scope		Ea	6.00	E
[Quantity change notes		LF	280.00	E
2200245		LF	320.00	E
2030534		LF	80.00	Е
2030533		Ea	2.00	E
0020522		Fa	4 00 k	F

A banner shows when the sync is in progress after you select Get Plan components.

Ξ 🛱 ition / Design / Quantity forecastin	Component sync in progress		0 4 8	© #
	QUANTITY ITEMS ROLLUP VIEW	AUDIT LOG	View: Default	•
Actions 👻 🕑 😢			A• 🔻 🗗 🗊 🕯	a Q
□ *ID		esign element 👳 *Account code 👳	Account code description WBS phase code	
3422429 NNN Wk	600.00 Operational Support Du	ust Control 30.06.32.004	Support Services - D 2930	

During the sync, two things occur:

- As new or updated components are brought into Design, their attributes are compared to what is defined in the project settings, and then associations that occurred are created or updated.
- The quantity item's quantity is updated based on the new quantity that is brought over from Plan, and then update any Forecast (TO) quantity where Component Qty driver is set.

These are read-only fields that show the summed amounts for the quantity and installed quantity of components assigned to the quantity item. You can view components assigned to a quantity item by opening the Edit quantity item slide-out of a quantity item, and then selecting the **Components** tab or by selecting the link available on the Component Qty amount in the grid.

					TAAUQ	TITY ITEMS	ROLLUP VIEW	AUDIT LO	DG				View: Default		
Ac	ctions 👻 🕒	🗹 🛞											T 🗜	II t≡	(
)	*ID	The Description The Descriptio	*UoM	The Forecast (TO) The second s	0% Qty 👘	90% Qty	- Design Complete	Compo	nent Qty 👘 👻	Installed qty 👘 👻	Edit quantity item				
0	45609			158.00			2	Ŧ	<u>158.00</u>	0.00	DETAILS	QUANTITIES	COMPONENTS	NOTES	
0	45605		Ea	24.00			2	¥	24.00	0.00					
	45604		LF	19.37			2		19.37	0.00	Component ID	Component qty	Installed qty	Modified Date	
1	45603		LF	13.73			2	x	13.73	0.00	Embed Concrete Heating/Hoardin EC-300 (01G-U	4.00000	0.00000	11/21/2019 12:33:19 PM	
1	45602		Ea	1,905.00		1 ,905		÷.	1.905.00	0.00	Embed Concrete Heating/Hoardin EC-300 (01G-U	11.00000	0.00000	11/21/2019 12:33:19 PM	
1	45601		SF	20.16			2	Ŧ	20.16	0.00	Embed Concrete Heating/Hoardin EC-301 (01G-U	23.00000	0.00000	11/21/2019 12:33:19 PM	
1	45600		SF	10.50			2	*	10.50	0.00	Embed Concrete Heating/Hoardin EC-301 (01G-U	19.00000	0.00000	11/21/2019 12:33:19 PM	
0	45599		SF	10.50			2	Ŧ	<u>10.50</u>	0.00	Embed Concrete Subtotals	158.00			
1	45598		SF	56.50			2		56.50	0.00					

4.7.1 Considerations

- You must have applicable permissions in Quantity forecasting.
- The Get Plan components action is available when Enable component integration with Plan is enabled and configured in the project settings > Quantity forecasting > Component integration > Plan component integration.

4.8 LOCK AND UNLOCK SCOPE

On the Quantity Items page, you can lock and unlock the scope of a project. When you lock the scope, the OB Qty and OB Man Hour fields are disabled, and the design stages are enabled to allow stage quantities to be maintained and updated. Locking scope maintains a snapshot of your initial estimate quantity to help in benchmarking post-project completion.

When you unlock the scope, the OB Qty and OB Man Hour fields are enabled, and all the design stages fields are disabled.

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

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						▲• ▼	i (†	Q
Control unit rates	lescription 👘	*UoM	Forecast (TO)	OB qty 📃	OB MHrs	CB MHrs	CE MHrs 📃	Fc re
	NNN	Wk	600.00				156.08	
ock scope	Test Bug 23619871	SY	0.00				0.00	
Action will enable OB (Qty and OB MHrs/Unit field	ds and disable Design stage t	fields 80.00				20.81	
2200248		LF	526.74				559.00	
2200247		Ea	6.00				2.16	
2200246		LF	280.00				8.40	
2200245		LF	320.00				9.60	
2030533		Ea	2.00				4.75	
2030532		Ea	4.00				9.50	
2030531		Ea	2.00				4.75	
2030530		Ea	2.00				4.75	•
222222222222222222222222222222222222222	Plan components ck scope unit Action will enable OB (1200248 1 1200247 1 1200246 1 1200245 1 1200245 1 1200245 1 1030533 1 1030531 1	NNN ok acope Test Bug 23619871 vmt Action will enable OB Qy and OB MHrs/Unit field 2200248	NNN Wik ek acope Test Bug 23619871 SY 2200248 LF 2200246 LF 2200246 LF 2200246 LF 2200246 LF 2200245 LF 200245 LF 200245 LF 200253 LF 200253 LF	NN Wk 660000 ok acope Test Bug 23619871 SY 0.00 vml Action will enable 08 QM MV/Vml HUS and disable Design stage fields 380.00 2200248 LF 526.40 2200247 Ea 6.00 2200246 LF 320.00 2200245 LF 320.00 2300333 Fa 2.00 2300353 Ea 2.00 2300351 LF 320.00	NN Wk 660.00 ck acope Test Bug 23619871 SY 0.00 ck acope Test Bug 23619871 SY 0.00 200248 LF S26.00 100 200246 LF 320.00 100 200246 LF 320.00 100 200245 Ea 4.00 100 200245 Ea 3.00 100 2002532 Ea A.00 100 2002531 Ea A.00 100	NN Wk 66000 ek acope Test Bug 23619871 SY 0.00 1200248 F SS SS 1200247 E SS SS 1200247 F SS SS 1200248 F SS SS 1200248 F SS SS 1200247 F SS SS 1200246 F SS SS 1200247 F SS SS 1200248 F SS SS 1200246 F SS SS 1200245 F SS SS 1200245 F SS SS 1200245 F SS SS 1200245 F SS SS SS 1200245 F SS SS SS 1200253 F SS SS SS 120026 F SS SS SS	NNN Wit 60000 ck acope Test Bug 23619871 SV 0.000 ck acope Test Bug 23619871 SV 0.000 200248 LF 32.000 200247 Ea 6.000 200246 LF 32.000 200245 LF 32.000 200353 Ea 32.000 200353 Ea 32.000 200351 Ea 32.000	NNN With Genome Genome

4.8.1 Considerations

- The scope is unlocked by default for new projects.
- A warning banner shows when the scope is unlocked that reads "The scope is unlocked. Scope must be locked to add design quantities."
- To lock the scope, you must have the permission Lock project.
- To unlock the scope, you must have the permission Unlock project.

4.9 QUANTITY CHANGE NOTES

In Quantity change notes, you can create notes to capture quantity change by discipline on a project. This lets you document changes throughout the life of the project to understand what changed, why it changed, and when it changed.

When an account code set is assigned to a project, the system only shows the design elements that are associated to the selected discipline in the account code set in the Quantity change notes dialog box drop-down fields.

To view, edit, or create a new note, select **Quanty change notes** in the Actions drop-down menu.

		QU	ANTITY IT	TEMS	ROLLU	P VIEW A	UDIT LOG	View	Unsaved (Default)		•
Actions 👻 (₫ ⊗								ŭ 🗘	≎≡	a
Get Control unit rates)escription 👳	*UoM		Forecast (TO) qty	1	*Discipline	*Design element	*Account code	Account code description	- *	WBS
Get Plan components	NNN	Wk		6	600.00	Operational Support	Dust Control	30.06.32.004	Support Services - [)	2930
Unlock scope	Test Bug 23619871	SY			0.00	Operational Support	Temporary Roads, P	30.06.04.002	Temporary Roads, F	»	3422
Quantity change notes	Test Bug 2361987	LF			80.00	Electrical	Heat Trace - Cable	81.39.02	Heat Trace self-regu	J	2930
220024 Quantity change	notes	LF		5	526.74	Subcontracts	Piping Subcontracts	95.70	Piping Subcontracts	3	2657

In the dialog box, you can edit the existing notes directly. To create a new note, assign a discipline, design element, quantity, cause code, and tags, and then click **Add** to create the new note.

*Discipline	-	*Design element		*Qty —	*UoM		*Note	Tags 😨	Modified by	Modified date 📃
Select discipline	•	Select design element	Ŧ	Enter qty	Select uom 👻	Select cause code 🛛 👻	Enter note	Select tags 🛛 👻		
Civil Utilities		Precast Cable Trench		100	LF	Design Change	test2		Jakob	6/23/2020 2:28:43 PM
Building		Joint Sealants		10	LF	Design Change	test		Jakob	6/22/2020 2:59:43 PM
Notes: 2										

All additions, edits, and deletions are automatically saved.

4.9.1 Considerations

You must have applicable permissions in Quantity forecasting.