

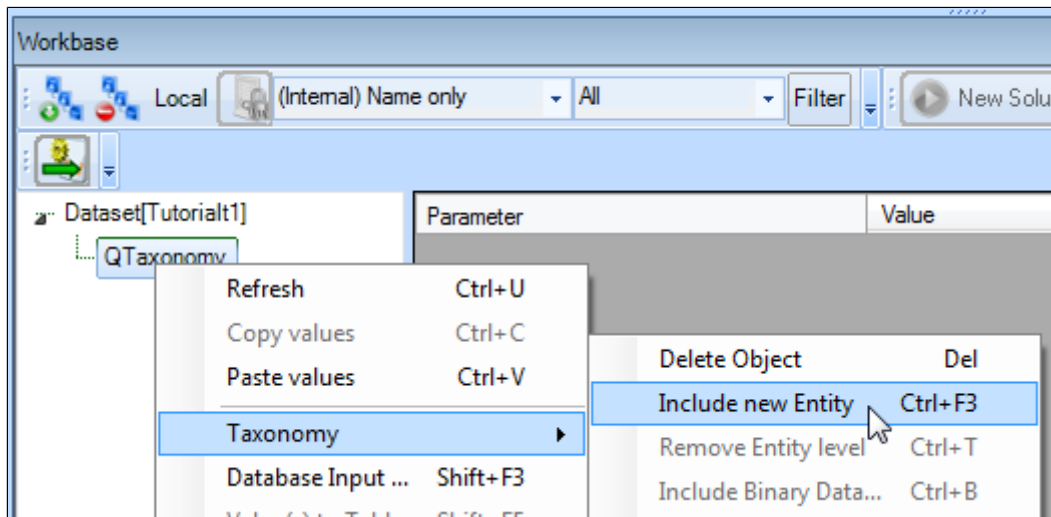
# Including entities in a taxonomy



## 1 Including the first entity

You are now going to create the first entity in the newly created taxonomy (see [Preparing a knowledge base for Taxonomy/Entity use](#)).

- Right-click on the `QTaxonomy` node in the **Workbase** and select *Taxonomy > Include new Entity*, or press **Ctrl+F3**:



This opens the **Entity Editor**.

The entity type of the first entity in a Taxonomy tree, can only be 'Singular obligatory'. This means that this entity will always be included in a dialog.

- Provide the name `Ship configurator` in the field *Entity Name* and click **OK**.

Entity Editor

Entity name:

Ship configurator

Entity title in tree:

Entity condition:

Expression Editor

Entity reference:

Entity data:

Entity Type

☒ Singular obligatory (prefix '\_')
 ☐ Singular, non obligatory (prefix '&')
 ☐ Singular, option, one to be selected (prefix '#')
 ☐ Belongs to group of single optional entities (prefix '\$')
 ☐ Multiple, select none, one or more (no prefix)
 ☐ Generic entity (prefix '\*')

Include

☐ Document or image
 ☐ Parameters from knowledge base

Properties

☒ Show computed values in dialogue

OK

Cancel

Now your first entity is placed in the Taxonomy tree below the *QTaxonomy* object (note again that this is in the **Workbase**):

Workbase

Local (Internal) Name only All Data input

Dataset[Tutorial1]

QTaxonomy

Ship configurator

Parameter	Value	Dimension
QEntityData	Text/Telitab	Str
QEntityID	1	ID
QEntityInput	-	Telitab
QEntityName	_Ship configurator	Str

Every entity automatically contains the standard Quaestor parameters: *QEntityName* and *QEntityID*. Both parameters will not be visible during a process dialog for users. The value for *QEntityID* is unique and is automatically assigned by Quaestor. It cannot be modified by a Knowledge Engineer.

The value of *QEntityName* is automatically prepended with a **prefix** that indicates the type of Entity (in this case “\_”, which means singular obligatory entity). Each entity type has its own specific prefix.



When renaming an entity, be aware that changing the prefix will also change the behavior of the Taxonomy tree!



Values filled in the fields of the Entity Editor can always be included/edited later on.



## 2 Including more entities

Next, you will have to include a singular obligatory `Ship design` entity below the entity `Ship configurator`. That means that `Ship design` will always be included in a solution (below `Ship configurator`).

- Right-click on the `Ship configurator` entity in the [Workbase](#). Select *Taxonomy > Include new Entity* or press **Ctrl+F3**
- In the Entity Editor, select Entity type *Singular obligatory* and name the entity `Ship design` and press **OK**.

There need to be added some more entities now. These will be optional entities.

- Select the `Ship configurator` entity and press **Ctrl+F3**. Call the new entity `Mass calculation` and select Entity Type *Belongs to group of single optional Entities* and press **OK**.
- Do the same for the entities `Intact stability calculation`, `Data to Word report` and `Data to Excel`.

*Belongs to group of single optional Entities* will result in such an entity to be shown to the user in a selection window at the start of a solution run.

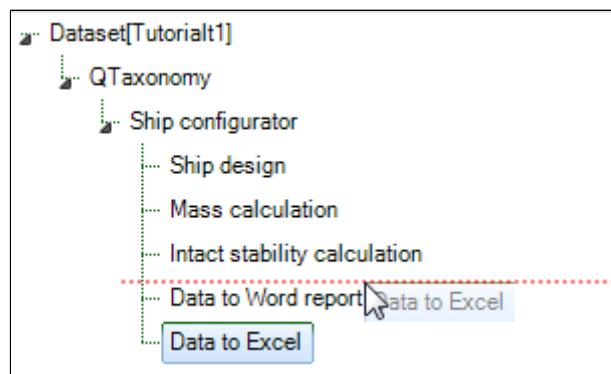


## 3 Changing entity type and sequence

Once you have included an entity in your taxonomy, in the way described above, it is always possible to change the type of the entity.

As noted in the previous section, the type of an entity is determined by the prefix of its name. Each entity type has its own prefix. Upon creation of an entity, the pertaining prefix will be automatically prepended to the value of parameter `QEntityName`. This parameter is hidden for a user during a modeling session. A Knowledge Engineer can change a **prefix** of an entity name manually in the [Workbase](#) and thus change the type. However, be aware that changing the prefix will also change the behavior of the Taxonomy tree! So only do this when you are sure about the changes you want to make.

Once you have included entities in your taxonomy, it is possible to change their sequence. For example if you want to place `Data to Excel` above entity `Data to Word report` select `Ship configurator`. Now the [Workbase](#) shows all `QEntity` objects one level below the entity `Ship configurator`. Now click on `Data to Excel` and drag it to the location between `Intact stability calculation` and `Data to Word report`.



## 4 Creating a test solution

To see/test what you have created so far, it is always possible to build a (test) solution by selecting the `QTaxonomy` entity and clicking on the *Process Manager* Button. When you have finished your (test) solution you can easily remove the solution by selecting the solution in the *Dataset* of the [Workbase](#) and press **Del**.

**i** When you have built a solution, your `QTaxonomy` object is hidden. You can toggle its visibility with **Ctrl+H**.

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