

# Advanced Model Management

This section describes operations that apply to the general aspects of models.

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## Create a new Model

Click **New** on the left menu on the Models Management page. A window opens:

NEW MODEL

Model name

Indicate the model name.

Description

A description for your model.

Initial content

☒ Create from scratch

Select this option if you want to start with a model with the minimum data.

☐ Create from an existing model

Select this option if you want to copy the contents of an existing model.

CREATE MODEL

Set a name for the new model. Note that you cannot use the same name for different models. Here you can decide whether you want to **create from scratch** or **create from an existing model**.

## Create a new model from scratch

In the **New Model** window, select first **Create from scratch** and click **Create model**.

## Creating a new model from an existing model

In the **New Model** window, select **Create from an existing model**.

**NEW MODEL**

**Initial content**

☐ Create from scratch

Select this option if you want to start with a model with the minimum data.

☒ Create from an existing model

Select this option if you want to copy the contents of an existing model.

Create from \* CQM

Select an existing model.

Model version \* 2019/11/21 09:26 - v2.4

Select the Model version to copy.

Languages to copy \* ASP.NET, Abap, C

Select which languages you want to copy in the new model. All rules found in the specified languages will be copied in the new model.

**CREATE MODEL**

Select an existing model from the **Create from** drop-down menu. You can select Kiuwan default models or any model from your own account.

Select the model version to copy in the **Model version** drop-down menu. You can create new models from these versions:

- The current version and the last published version, if available and if they belong to your account.
- The last published version of Kiuwan models.

Select which of the languages present in the selected model version you want to copy in the new model. All configuration and rules for the specified languages will be copied in the new model.

Finally, click **Create model**.

## Publishing a model

Typically, if our software will be developed by third parties, at some point, "we freeze" our model in order to provide it to them, so they can study and apply it. The action of **publishing** a model is made using the **Publish** button on the top right of the screen.

Clicking on the button will open the publish window.

2019/12/09 - 2020/01/07

**PUBLISH**

The window contains:

Name	Description
Publication tag	A literal, or "tag", to facilitate the configuration management tasks and versioning of project artifacts.
New technologies	The automatically generated weights for the new languages added (if exists), with the possibility to change the value.

Mandatory rules	The list of mandatory rules that will be automatically added to the model (if necessary)
Related rules	The list of related rules that you should check before publishing (incompatibilities, generalizations, and deprecations).
Mandatory metrics	The list of mandatory metrics that will be automatically added to the model (if necessary).

**Publish Model**

**Publication tag \***  
The publication tag will be shown in the model versions dropdown. You can easily identify a version of a model by its publication tag.  
v1.0.0

**New technologies**  
There are language weights that were automatically generated. Please, check that their values meet your requirements.

Language	Weight
Java	10

**Mandatory rules**  
Kiuwan needs some rules to be included in your model. These mandatory rules will be automatically added to the current model.

Language	Name
Java	Duplicated code: big block
Java	Duplicated code: medium block
Java	Duplicated code: small block

**Related rules**  
This model contains rules that have one or more related rules that you should check before publishing:  
 - Incompatible rules may cause duplicated violations in your analyses.  
 - Generalized rules should be replaced by their generalization.  
 - Deprecated rules should be avoided. Use the rule that deprecates them instead.

- ✦ Avoid program descriptions larger than N lines. (Cobol)
- ✦ Document program in code comments before PROGRAM-ID. (Cobol)
- ✦ Avoid programs with too many GOTO. (Cobol)
- ✦ Table names should be qualified (Cobol)
- ✦ Do not use COPIs for file/port descriptors. (Cobol)
- ✦ Use COPIs for file/port record definitions. (Cobol)
- ✦ Table names should not be qualified (Cobol)

**Mandatory metrics**  
Kiuwan needs some metrics to be included in your model. These mandatory metrics will be automatically added to the current model.

Category	Name
Size	Statements
Size	Views

**Publish** **Cancel**

## Model Actions

Once the model is published, these actions are available:

Test2 » Version 2020/01/08 09:41 - v\_1.2

**SUMMARY**

**PUBLICATIONS**

AC

- Change publication tag
- Remove this version
- Remove versions
- Edit model
- Remove model
- Set as default model

## Change publication tag

Click **Change publication tag** to edit the version tag of the published model.

**Overview**

Version tag v1.114\_edited

Indicate the version tag.

**Save** **Cancel**

## Remove this version

Click **Remove this version** to delete the selected model.



Do you really want to delete the selected model?

OK

Cancel

## Remove versions

Click **Remove versions** to remove one or more model versions that are never used in an analysis or an application.

This option is not available for Default model.

REMOVE VERSIONS ✕

Model: Test2

☐ Version tag

Last modification

☐ 2020/01/08 09:41 - v\_1.2

2020/01/08 09:41

REMOVE VERSIONS

## Edit model

Click **Edit model** to edit the model name and description. Click **Save** to save the edits and close the window.

OVERVIEW ✕

Model name

Indicate the model name.

Description

A description for your model.

SAVE

## Remove model

Depending on whether you have used the model or not, two different results will appear after clicking **Remove model**.

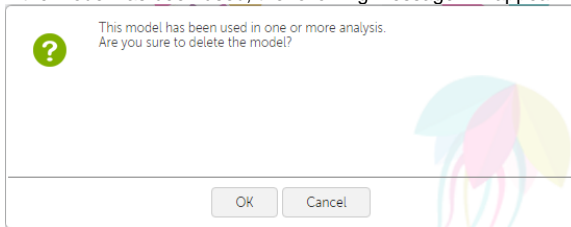
1. If the model is never used in any analysis or applications, the following window will appear: Click **Ok** to remove the model completely.

?

Do you really want to delete the selected model?

OK Cancel

2. If the model has been used, the following message will appear:



Click Ok to remove the versions that aren't used. The used versions will be available only through the analysis in read only mode

## Set as default model

Select Set as default model to set the selected model to default. (An asterisk will appear next to the model name on the left).



## Export to pdf

Open the hamburger menu next to the Summary title. Select **PDF** and a report is generated and downloaded automatically in .pdf format.



## Compare models and versions

Open the hamburger menu next to the Summary title to compare the selected model with another model and/or version. Read more details about it here: [Comparing Models](#).



## Model versions

A model is versioned each time it is published. Thus, we have two types of versions related to the publish state of the model:

- **Draft:** the latest version of the model, which can be edited. However, precisely because it is being edited, and thus unpublished, this version **still can't be used** in the analysis.
- **Published:** all released versions of the model have this state. A published version cannot be edited. Only the **last published version can be used** to run an analysis. Other versions are kept to manage historical data.

All versions of a quality model can be accessed through the drop down box in the Models Manager toolbar:

