

# Capella to Enterprise Architect Extension User Guide

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# 1. Introduction

Here is the user guide of the Capella to Enterprise Architect extension.

This extension allows to transform a Capella model to an Enterprise Architect model. This manual is composed of three sections:

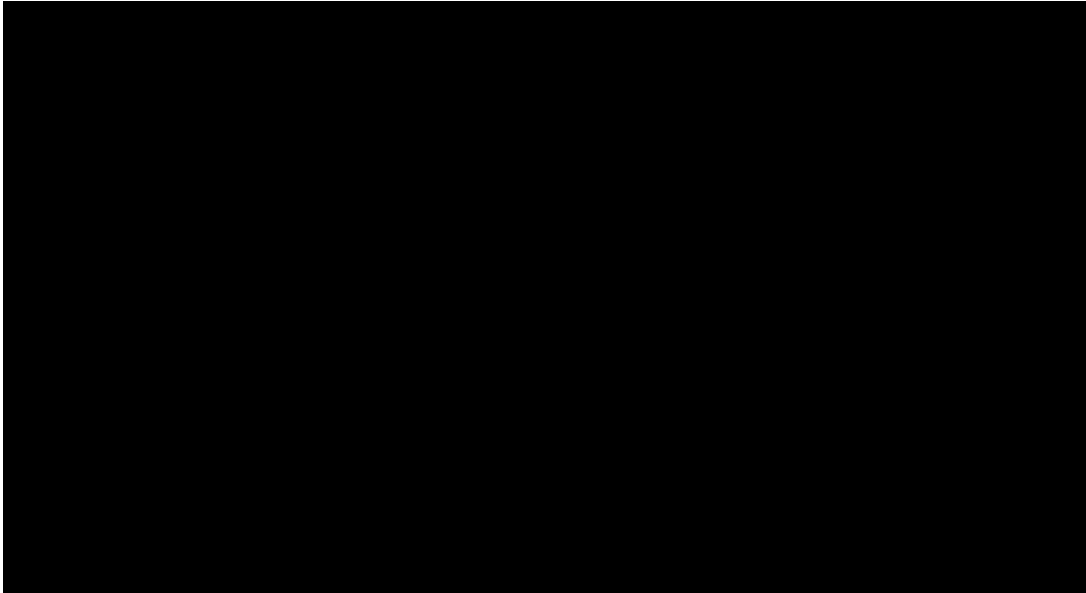
- **Installation:** description of the extension installation
- **Capella:** description of the capella extension and how to use it
- **Enterprise Architect:** explains how to import the model exported from Capella into Enterprise Architect.

## 2. Procedure installation

### 2.1. Product description

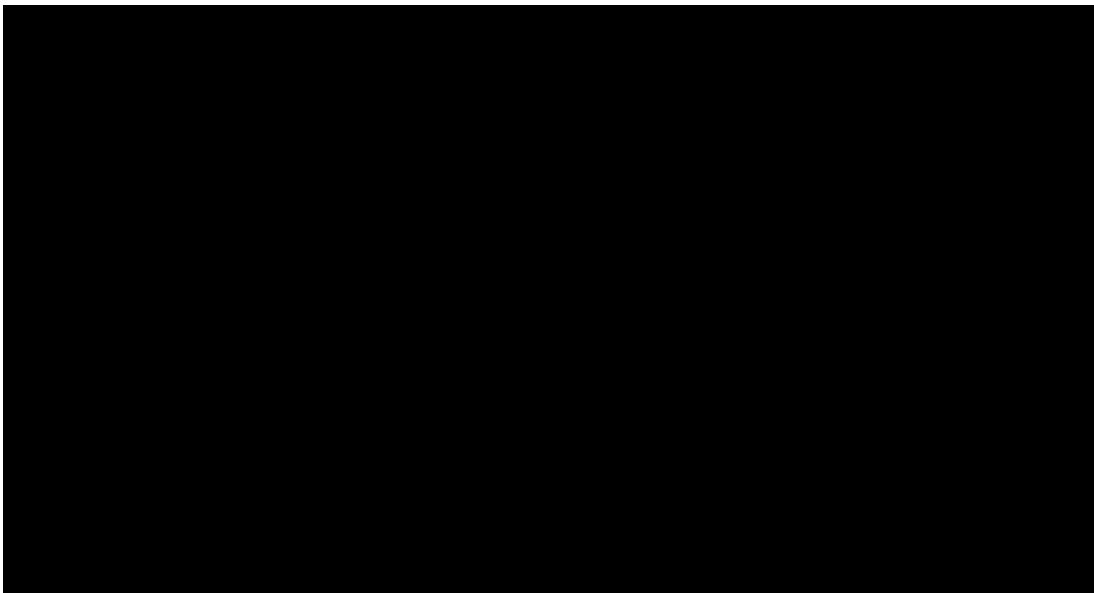
The product is delivered as a ZIP archive: **Delivery\_CapellaEABridge\_X.Y.Z.zip**, where "X.Y.Z" represents the current version of the extension.

The ZIP archive contains the extension products for the both **1.3.x** and **1.4.x** Capella versions.



*Figure 1. Compatible Capella versions.*

For each Capella version, a **drop-in** and an **update site** are delivered.



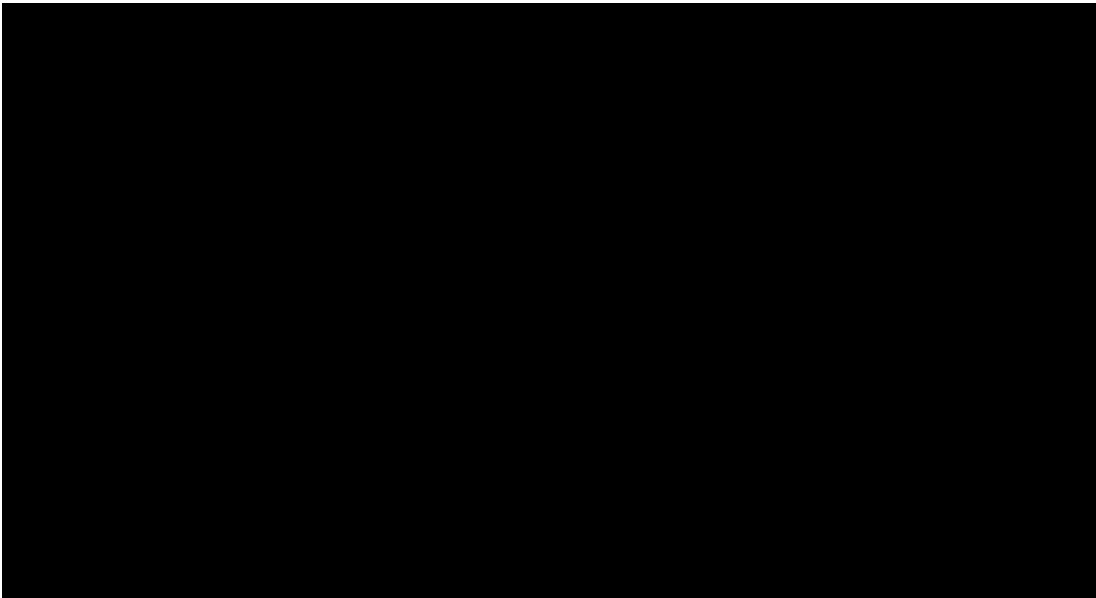
*Figure 2. Dropins and Update-site are delivered.*

A drop-in is delivered as ZIP archive: **CapellaEABridge\_VP-X.Y.Z-dropins.zip**, where X.Y.Z is the version of the extension.



*Figure 3. Dropin delivery.*

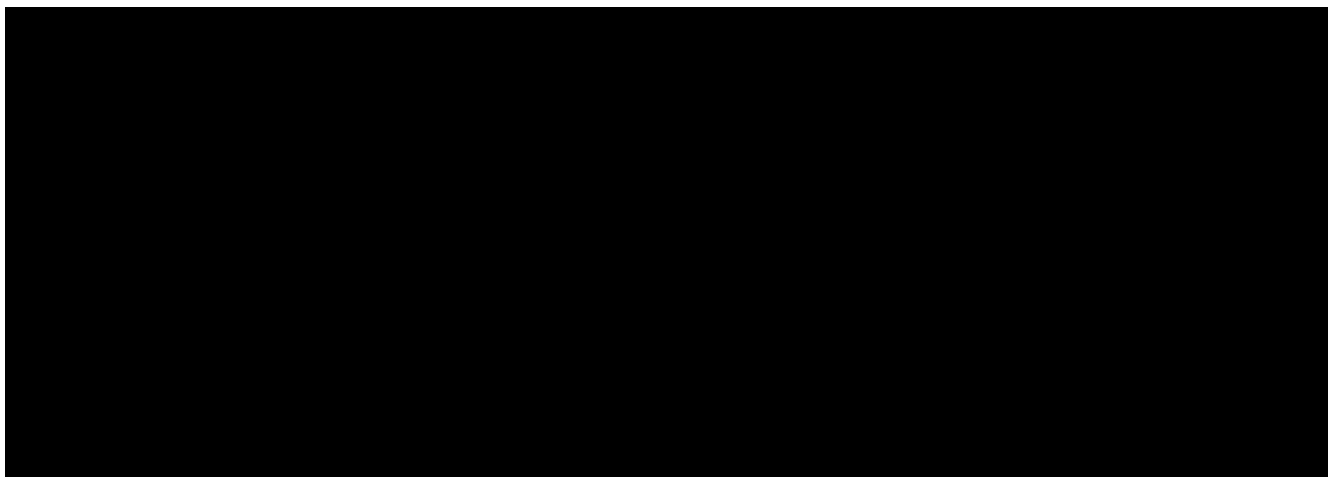
An update site is delivered as ZIP archive: **CapellaEABridge\_X.Y.Z\_updatesite.zip**, where X.Y.Z the version of the extension.



*Figure 4. Update-site delivery.*

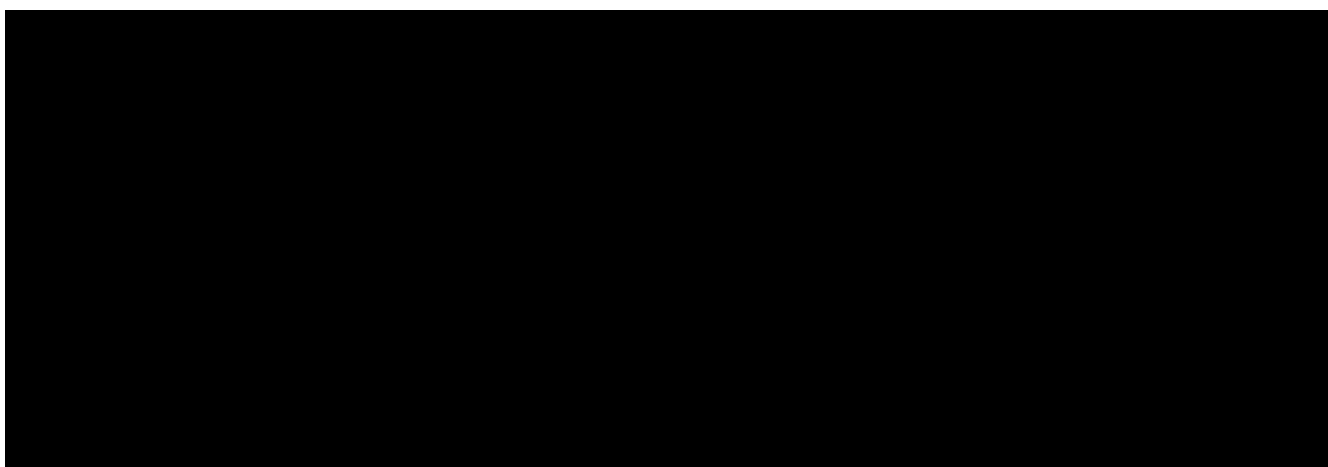
## 2.2. Drop-in installation

Unzip the Delivery\_CapellaEABridge\_X.Y.Z.zip archive.



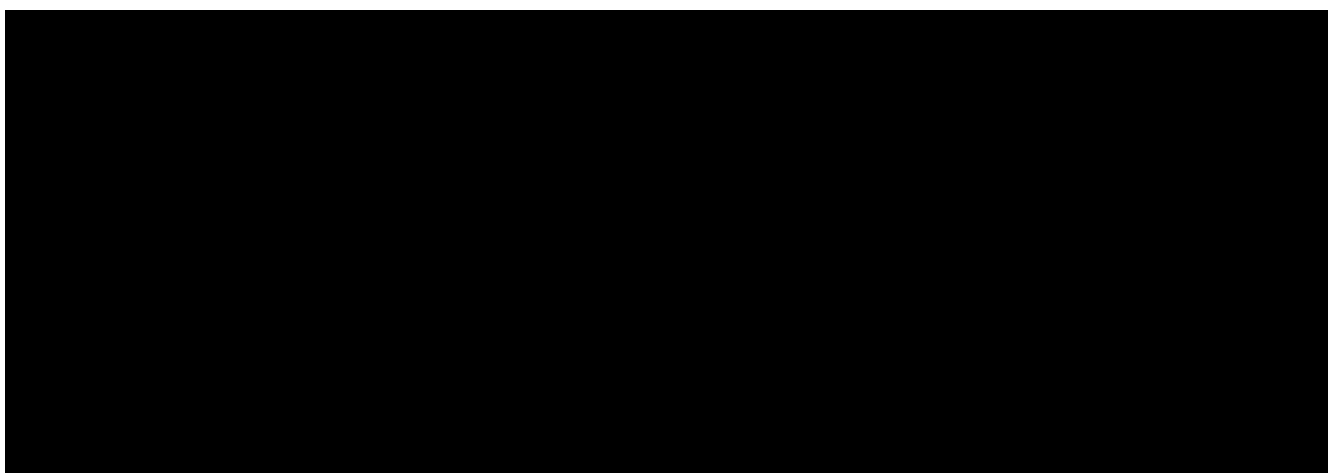
*Figure 5. Delivery Extraction.*

Open the **dropins** directory.



*Figure 6. Dropin to copied*

Copy/paste and unzip the CapellaEABridge\_X.Y.Z-dropins.zip into the **dropins** directory of the Capella\_X.Y.Z installation.

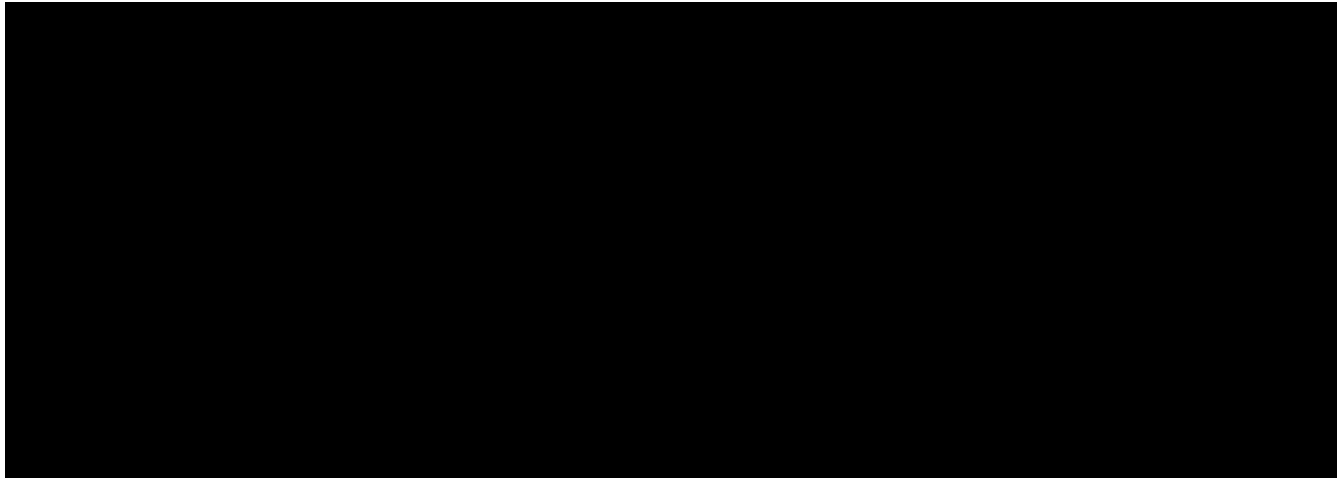


*Figure 7. Extract dropin.*

It is then possible to delete the CapellaEABridge\_X.Y.Z-dropins.zip archive.

## 2.3. UpdateSite installation

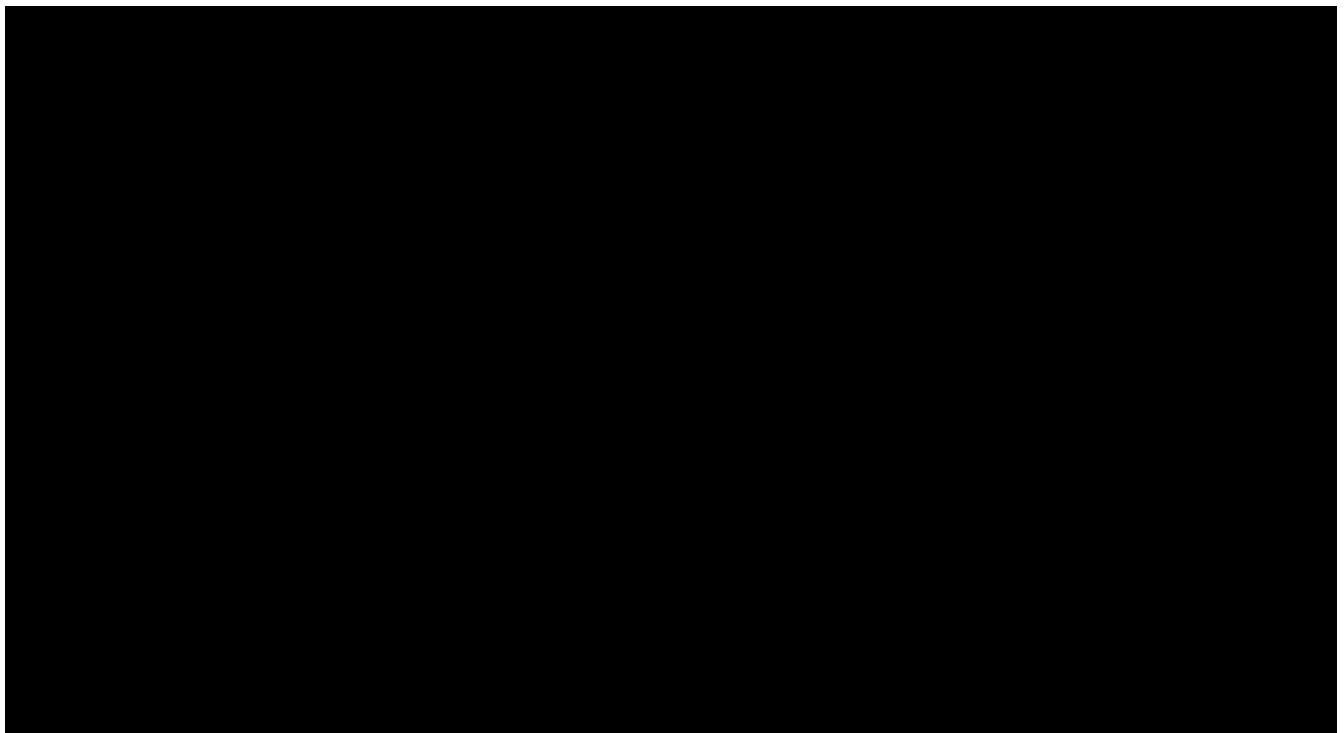
Unzip Delivery\_CapellaEABridge\_X.Y.Z.zip archive.



*Figure 8. Delivery Extraction.*

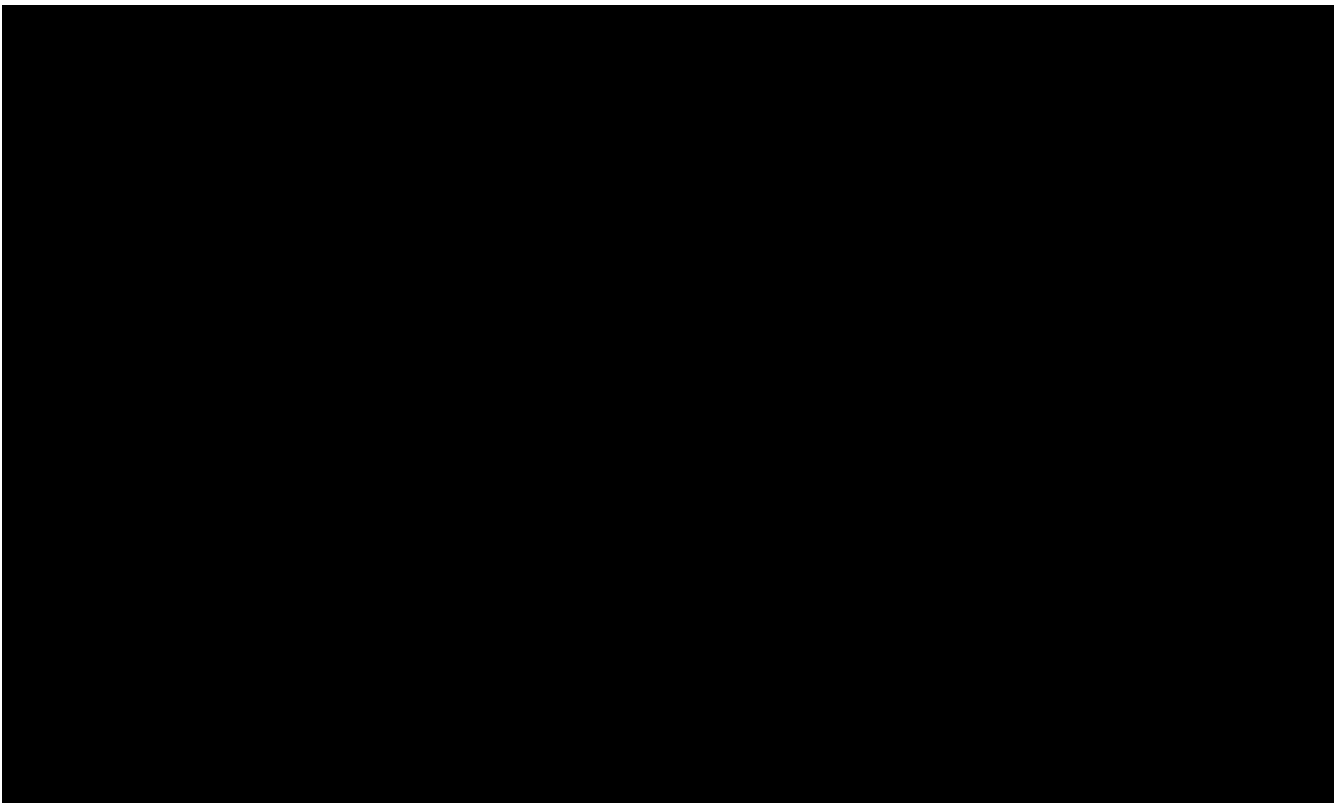
Execute the Capella software.

In the Capella "Help" menu, select "Install New Software...".



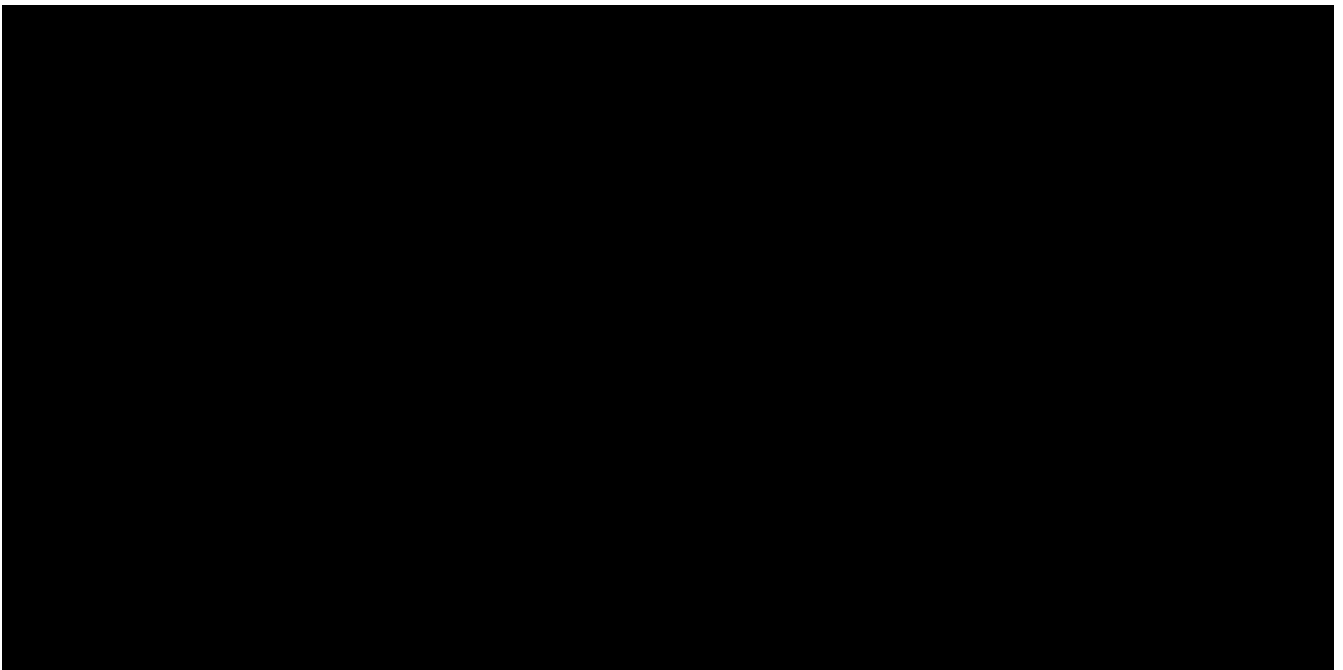
*Figure 9. Menu to install new update site.*

In the opened wizard, click on the "Add..." button and choose the **CapellaEABridge\_X.Y.Z\_updatesite.zip** archive. Set CapellaEABridge in the "Name" field.



*Figure 10. Add CapellaEABridge repository.*

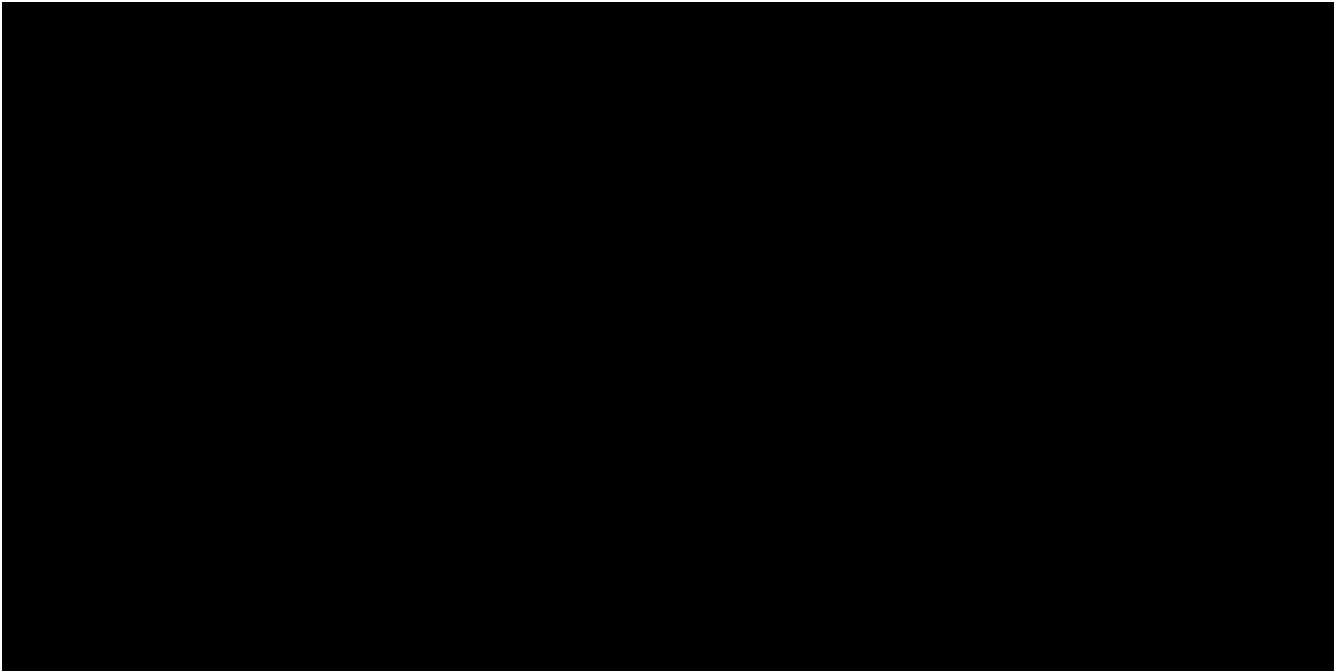
Select the CapellaEABridge feature and click on the "Next" button.



*Figure 11. Select the new feature.*

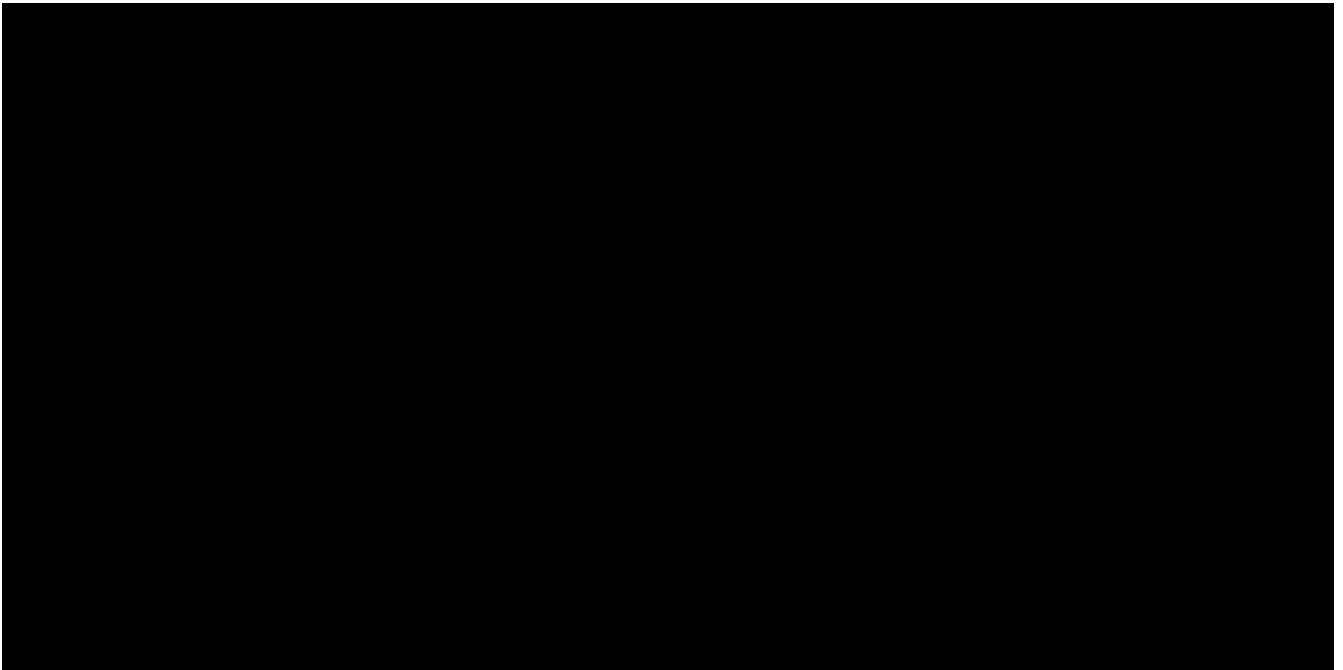
Click again on the "Next" button.





*Figure 12. Review the items to be installed.*

Accept the terms of the licence agreement and click on the "Finish" button.



*Figure 13. Accept license agreement.*

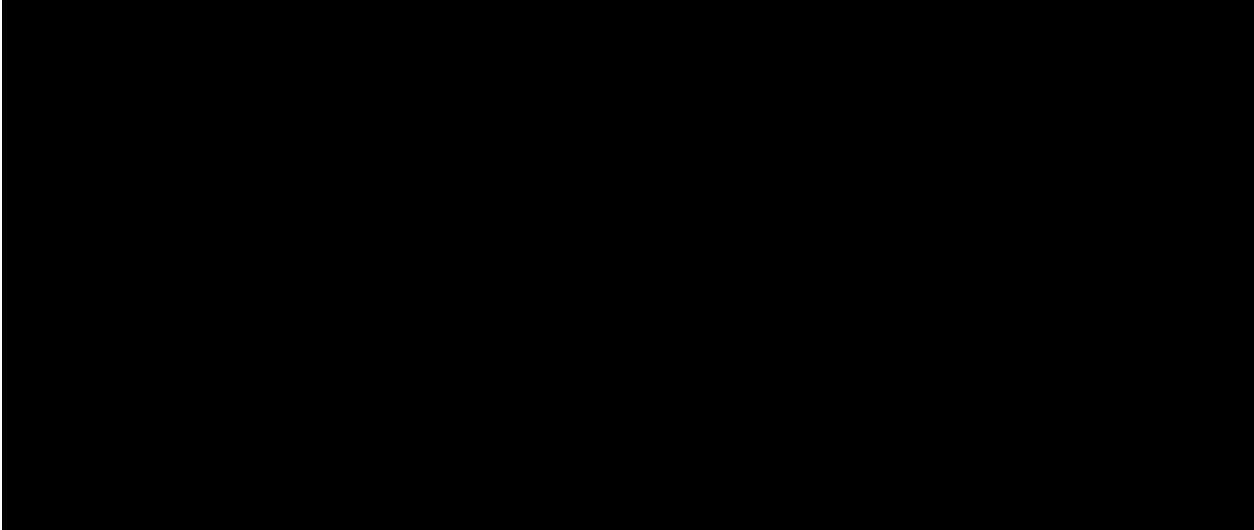
Once the CapellaEABridge udapte site is installed, you must restart Capella to activate it.

## 2.4. Check extension installation

After installation procedure, launch Capella.

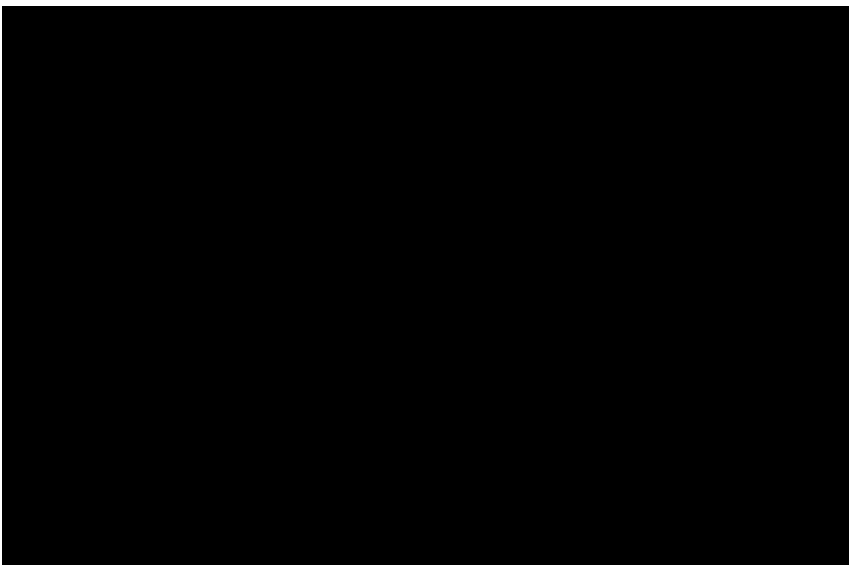
Check in the plugins installation CapellaEABridge is correctly installed.

In the Capella "Help" menu, select "About Capella".



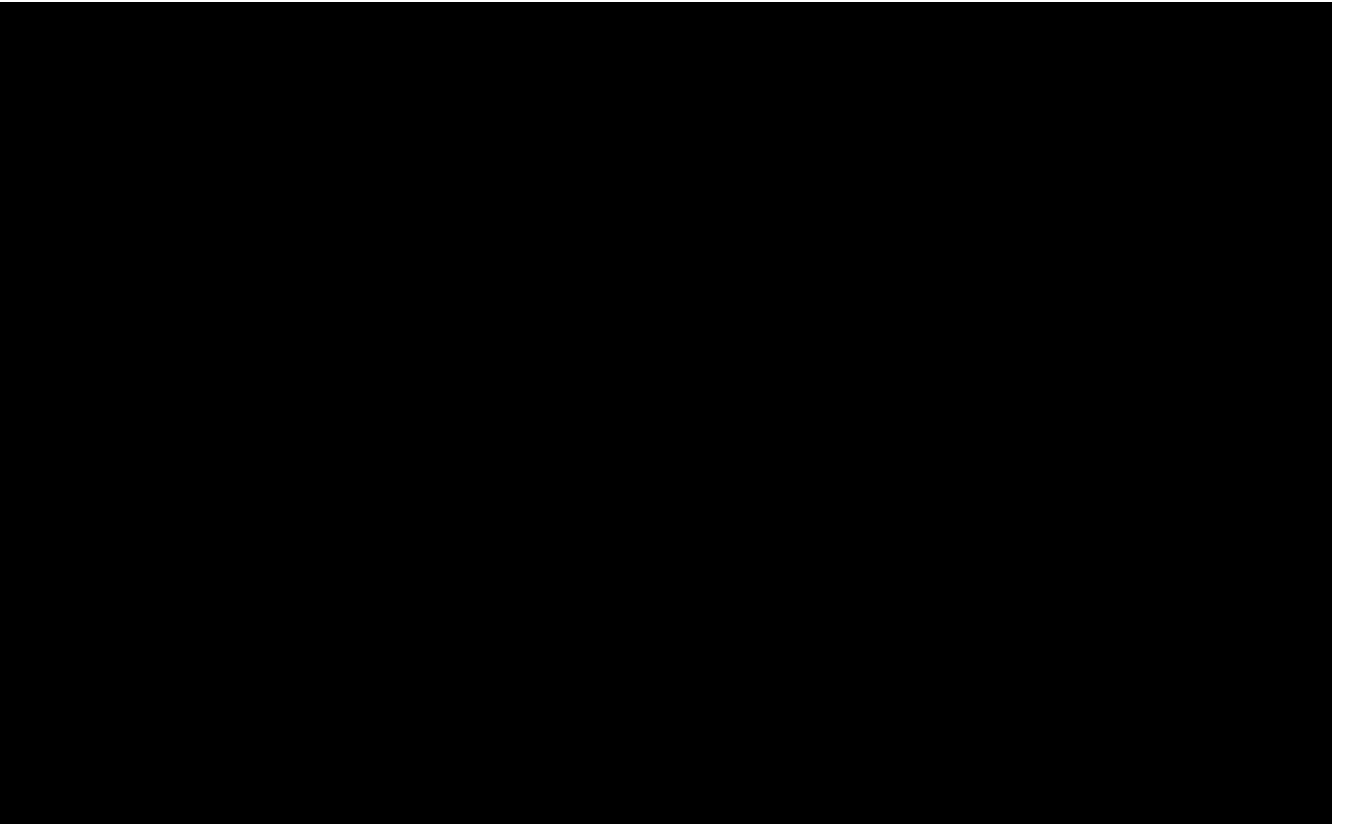
*Figure 14. About Capella.*

In the opened wizard, select "Installation details" button.



*Figure 15. Installation details.*

Check the Capella to Enterprise Architecture feature exists.



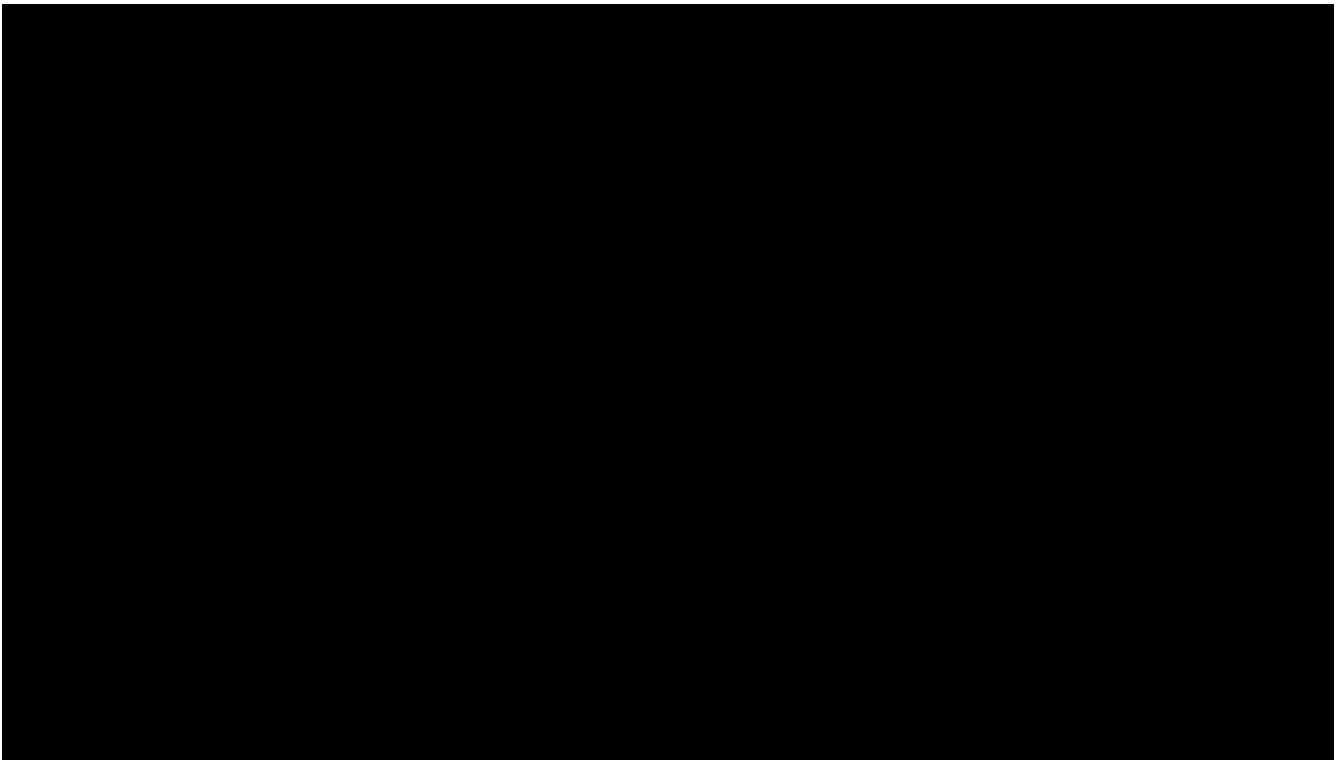
*Figure 16. Capella to Enterprise feature.*

## 3. Export from Capella

### 3.1. Pre-requisite

- A Capella Project: the goal of the Capella to Enterprise Architect extension is to transform an existing capella project into a EA model stored in a XMI/UML file.

In the following sections, the **Camera SysML2 Example** Capella project is used to illustrate the process.

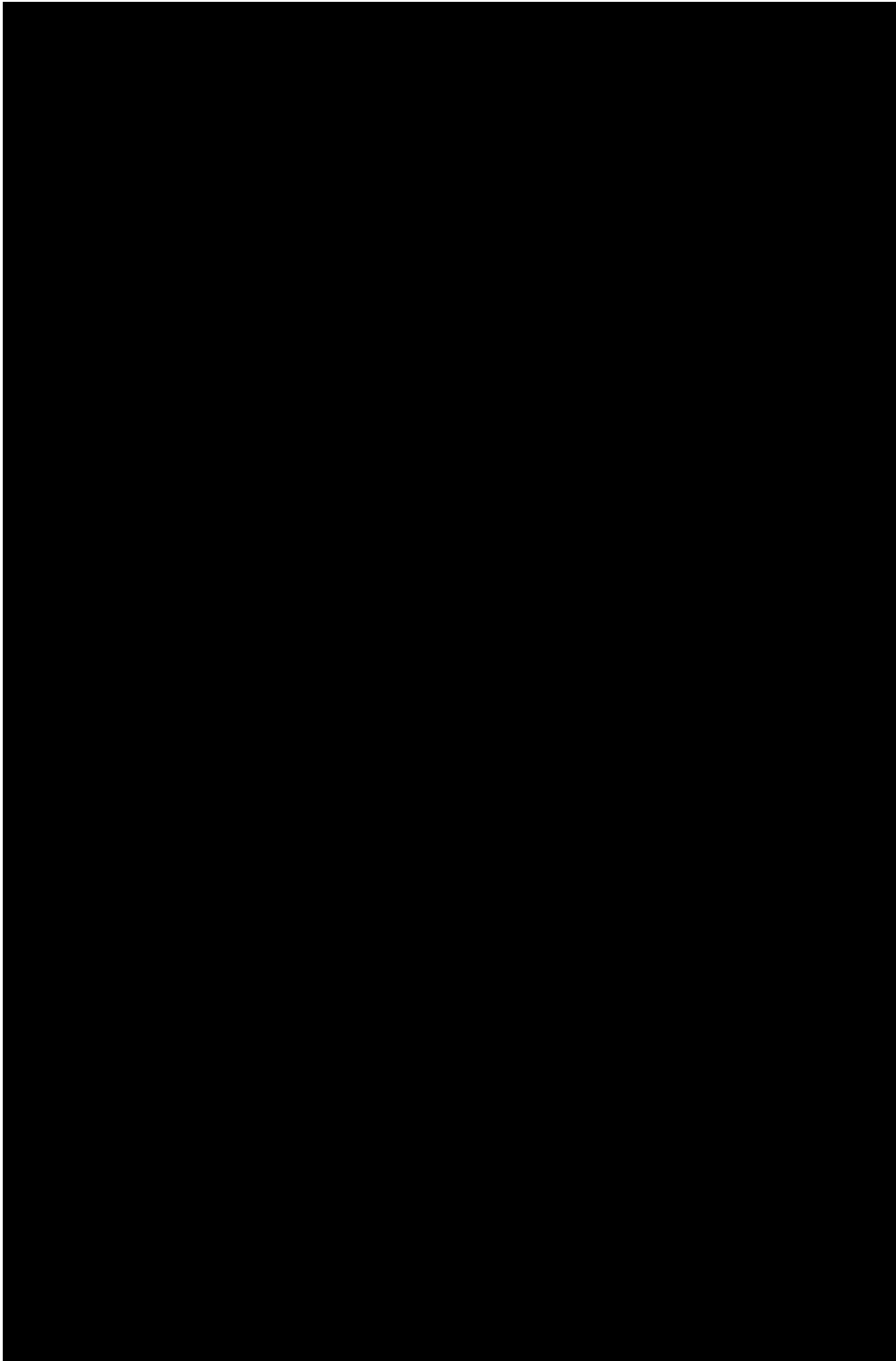


*Figure 17. Capella project example.*

## 3.2. Launch the Export model

### 3.2.1. Open Contextual "Exports" menu

Right click on a Capella Element, and select the "Exports" menu.



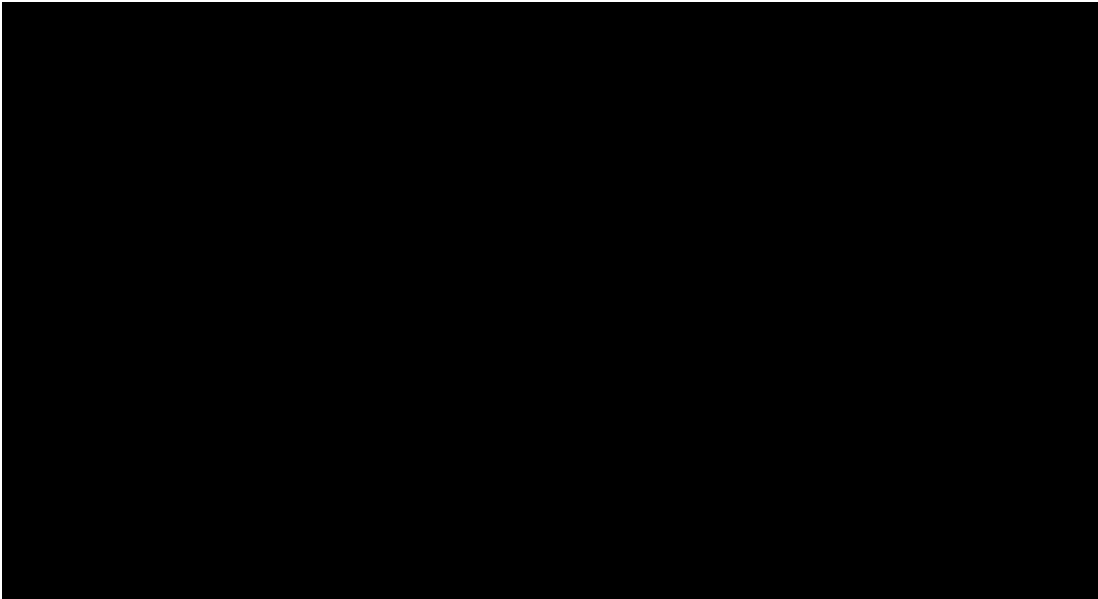
*Figure 18. Exports menu*

### 3.2.2. Configure the Export wizard

The opened wizard shall be filled with:

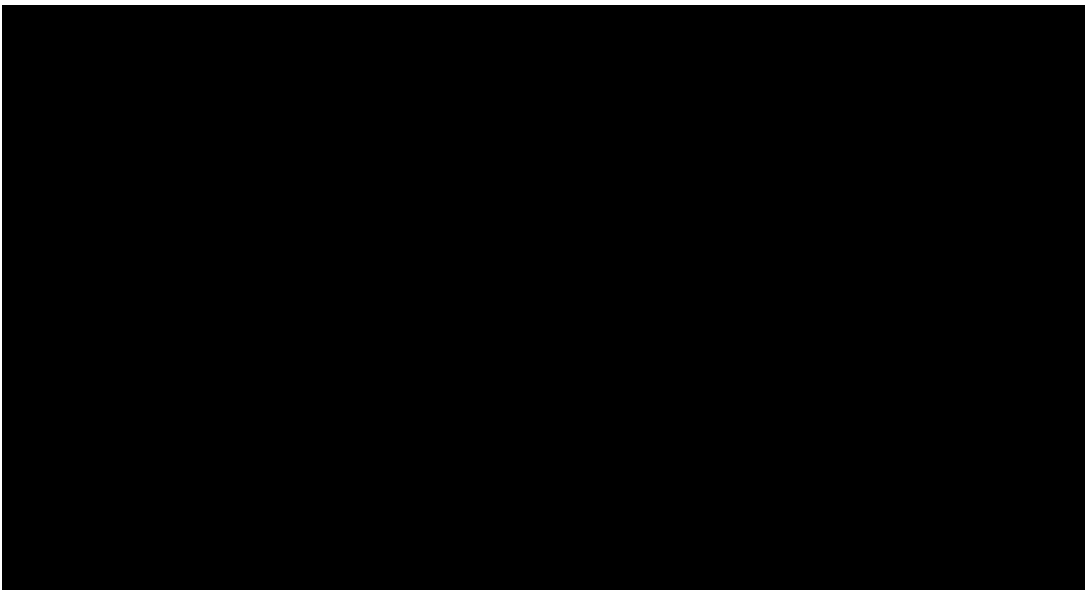
- The type of the transformation.

- The path of the target file.
- The (predefined) algorithm to use.



*Figure 19. Export wizard.*

Select the type of the transformation: the field proposes the "Capella to Enterprise Architect" type.



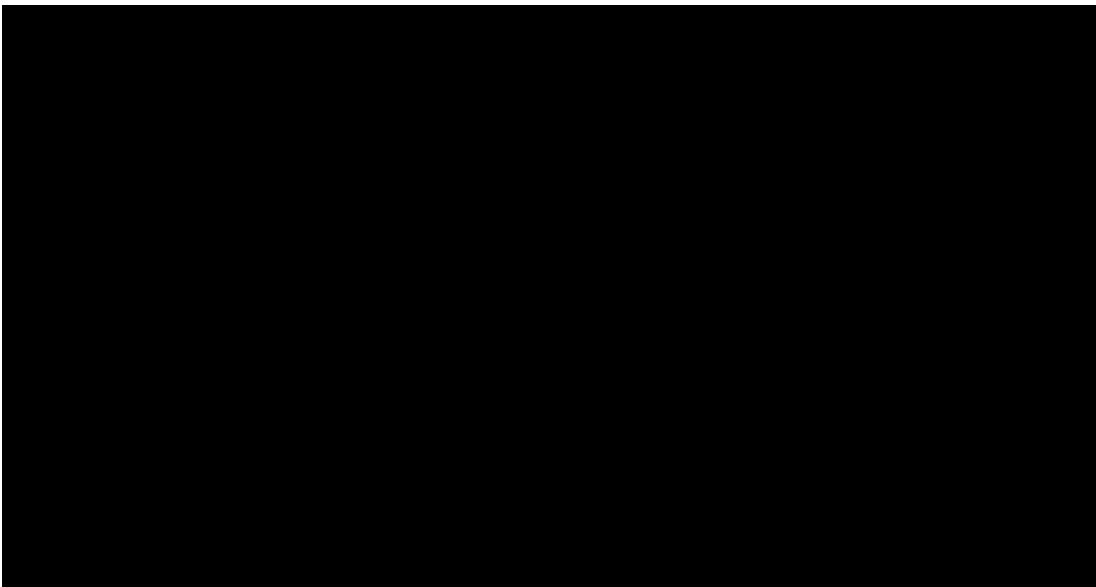
*Figure 20. Type of transformation.*

Select a target file: set the target path or click on the "Browse..." button. Using the opened wizard, all the existing xml files are displayed.



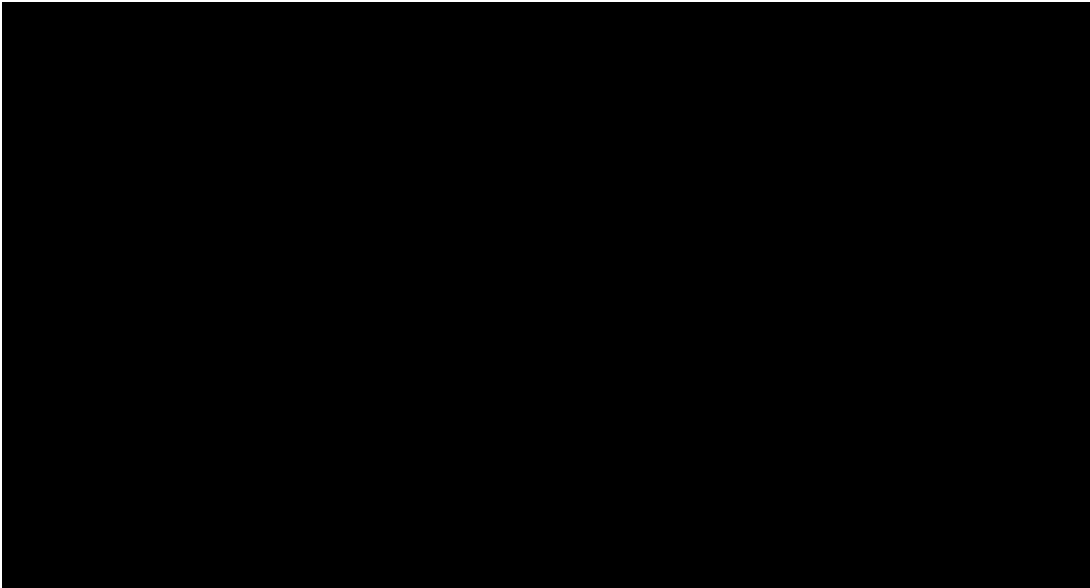
*Figure 21. Selection output file.*

Select an existing xml file, or set a new file name. Click on the "Open" button.



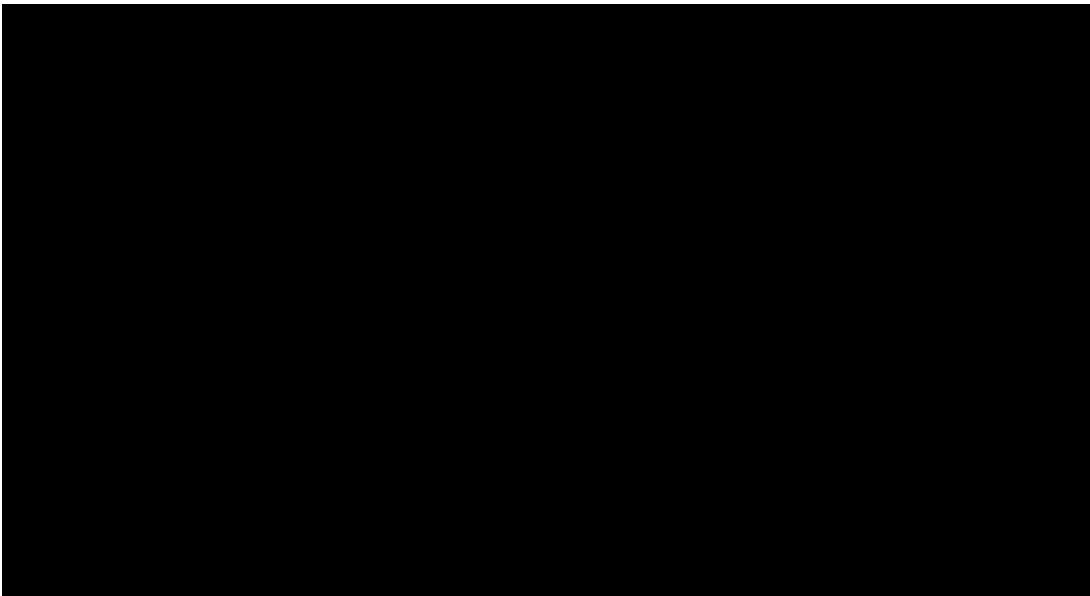
*Figure 22. Export wizard.*

Select a predefined algorithm.



*Figure 23. Algorithm selection.*

The OK button is available only when the three fields are filled.



*Figure 24. Filled Exports wizard*

Click on the "OK" button.

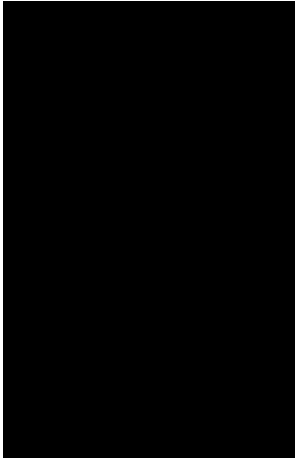
The Enterprise Architect model is built and persisted in the generated output xml file.



## 4. Import to Enterprise Architect

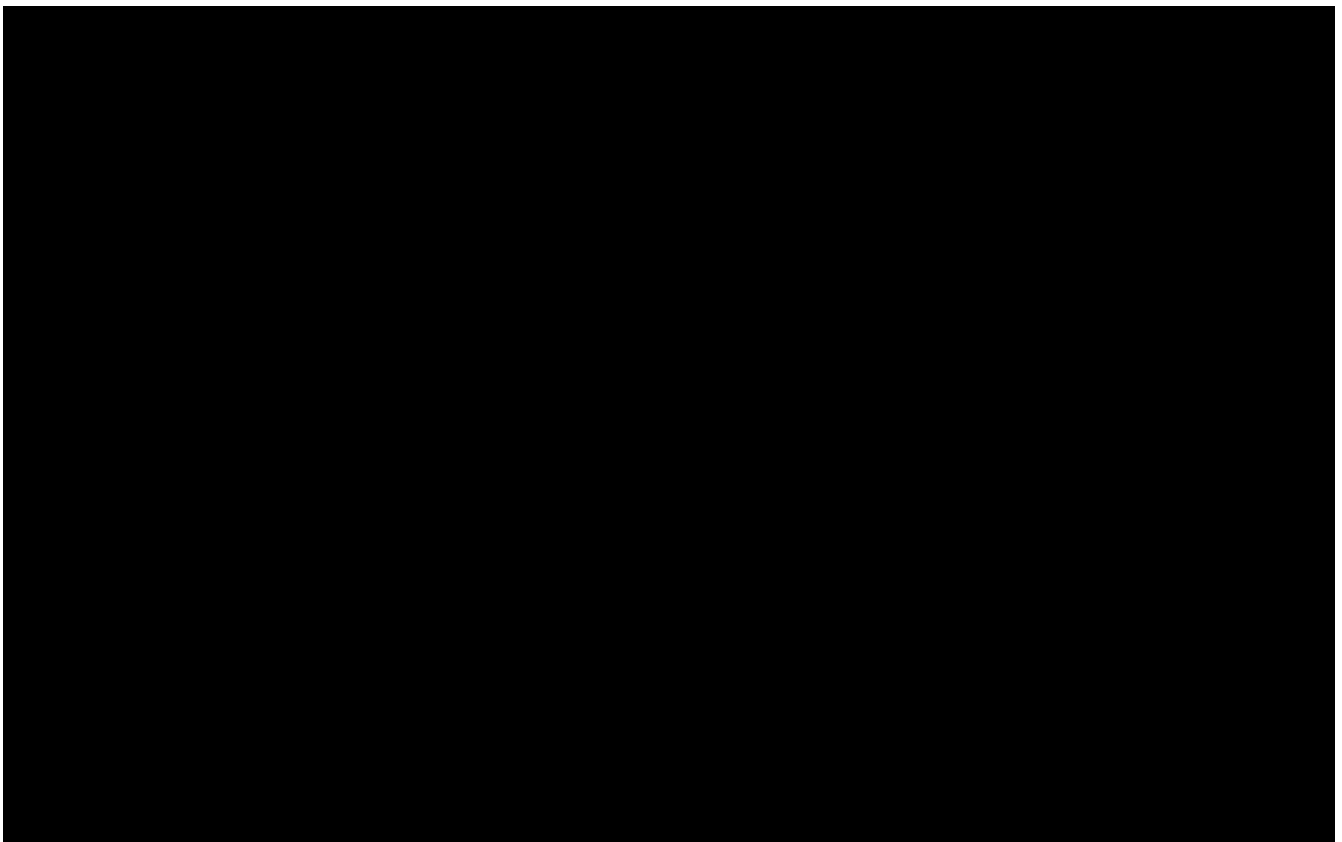
### 4.1. Create a new Enterprise Architect Project.

Start Enterprise Architect. Click on the "New File" menu.



*Figure 25. New project...*

In the displayed standard Windows file browser dialog, locate a suitable folder for your project and, in the "File name" field, type in a distinctive name. Click on the "Save" button.

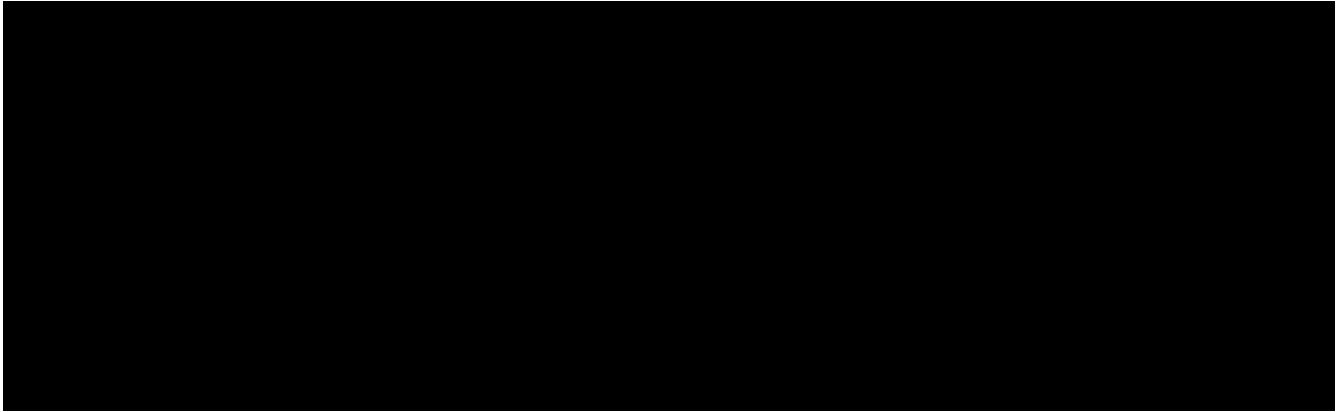


*Figure 26. Create a new project.*

## 4.2. Import Enterprise Architect model

In the "Browser" explorer, select the "Model" node.

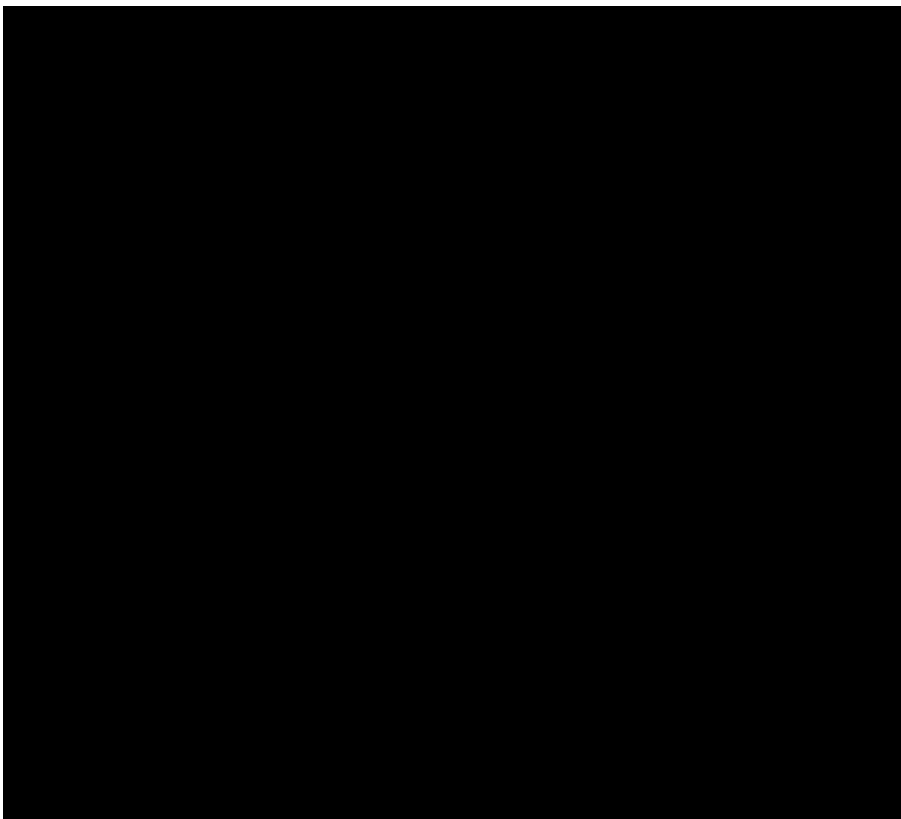
In the Enterprise Architect ribbon, select "Publish → Model Exchange → Import XMI → Import Package from XMI" menu.



*Figure 27. Import XML file.*

In the displayed "Import Package from XMI" dialog:

- **Filename** field: type the directory path and filename from which to import the XMI file.
- **Baseline Package after import** checkbox: Select this checkbox to open the "Create Baseline" dialog, through which to baseline the imported Package once the import is complete.
- **Import** button: Click on this button to start the import
- **Close** button: Click on this button to close the dialog.



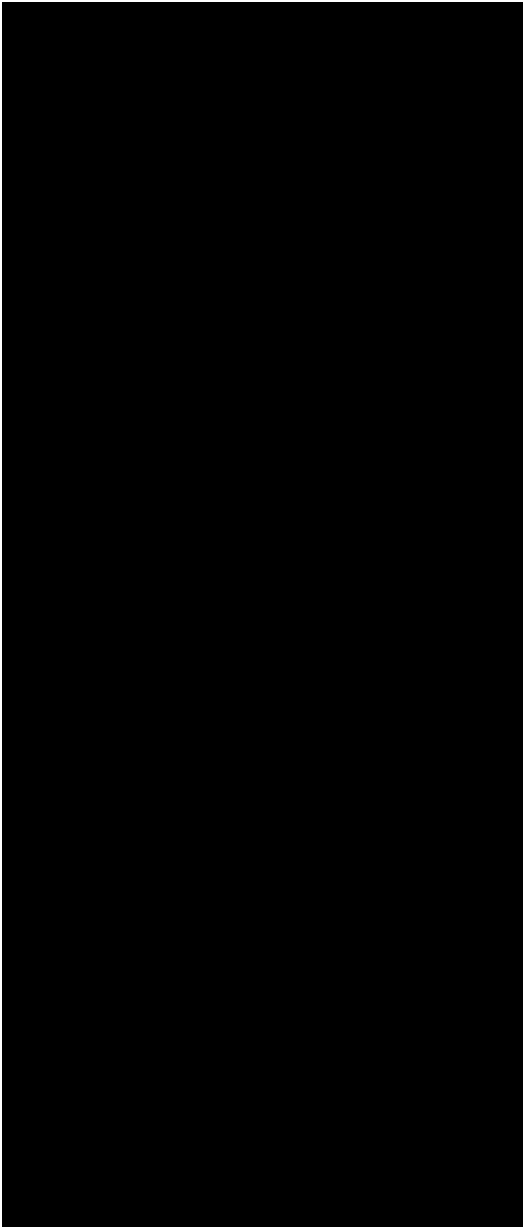
*Figure 28. Import XML wizard.*



*Figure 29. New Baseline.*

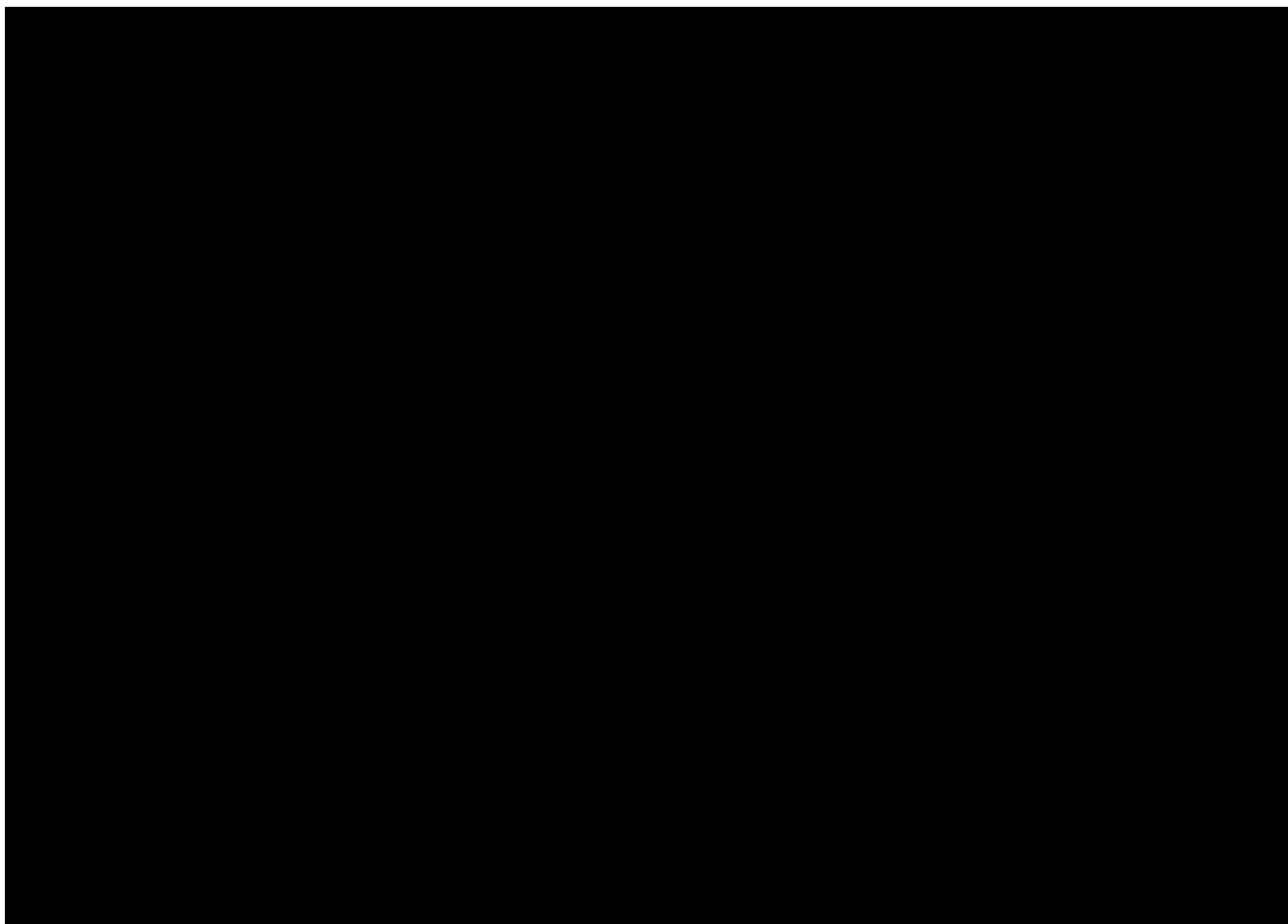
### **4.3. Inspect Import results**

In the "Browser" explorer, the imported data are displayed. Under the "Model" node, "Import Capella" package is created. This package contains all imported data from Capella.



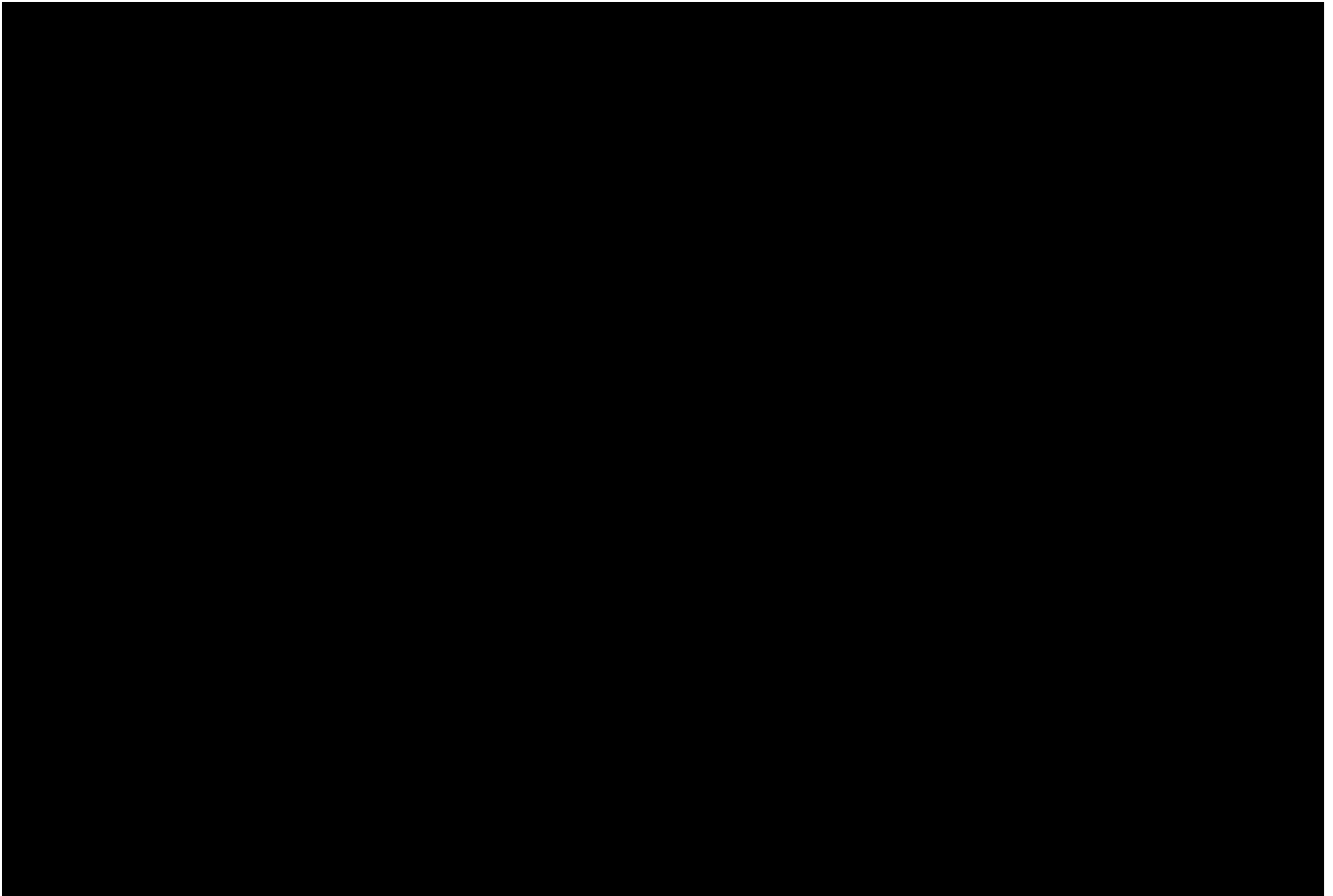
*Figure 30. EA model.*

Create a component diagram and drag and drop all components inside.



*Figure 31. Component diagram.*

Create a Class diagram and drag and drop all others elements.



*Figure 32. Class diagram.*

## 5. Transformation rules

