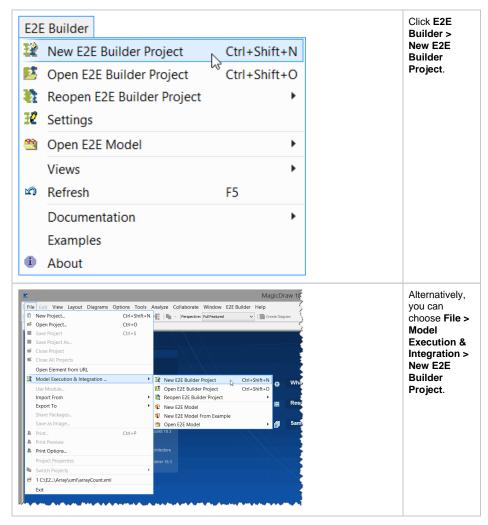
Using E2E Builder Lesson 1 MD18

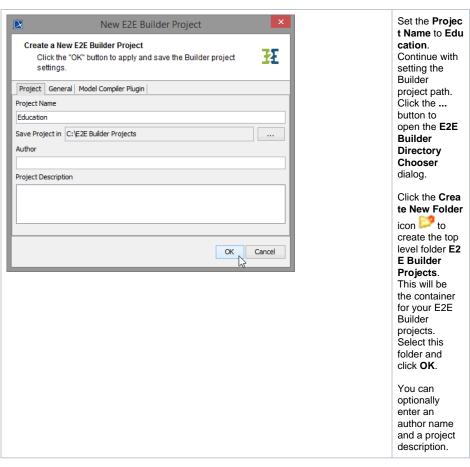
You have learned to open an existing Builder project previously. To start with lesson 1, you will create a new Builder project.

Creating a new Builder Project

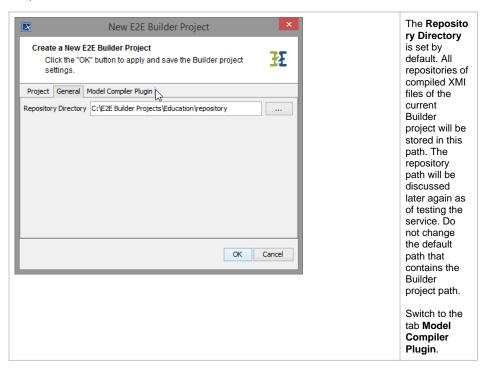


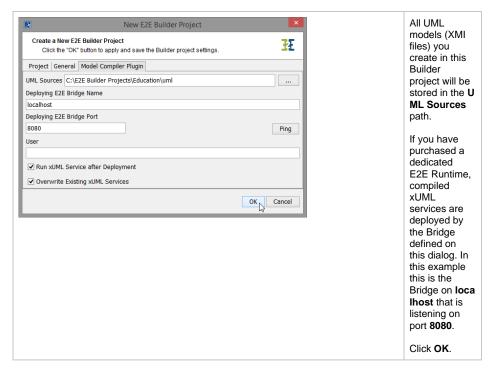


The New E2E Builder Project dialog will open asking you to configure the Builder project settings.



Now, switch to the General tab.

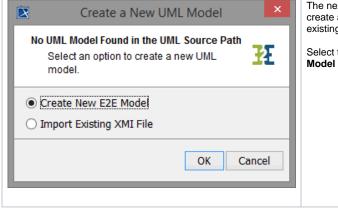




For detailed information about these settings, refer to the E2E Builder User's Guide.

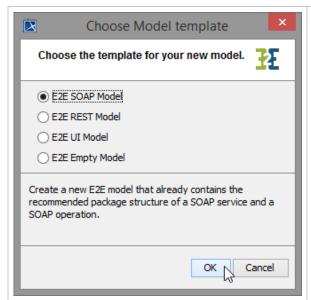
The settings are applied to the Builder project **Education**. All XMI files of a Builder project are in reference to the Builder project settings. You may change the project settings at any time by choosing the menu items **E2E Builder > Settings**. All actions that are executed afterwards will be based on the new project settings.

Be careful if you change the **UML Sources** path, because you will lose the references to XMI files that were stored in the old UML source path. If you change the **Project Name** or the project path (**Sa ve Project in**) on the **Project** tab, references to XMI files stay intact, but related files will be moved to the new Builder project location.



The next screen will offer you to create a new model or to import an existing model.

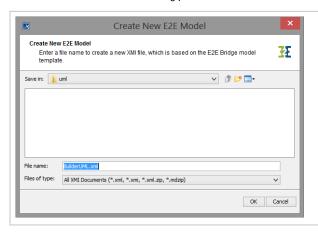
Select the option **Create New E2E Model** and click **OK**.



The Builder offers four standard templates for a new model. As you will create a Web service during the three lessons, choose **E2E SOAP Model**.

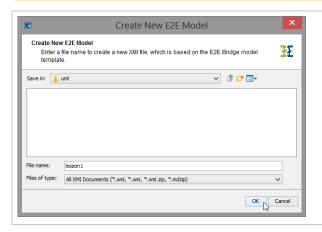
Click OK.

The E2E model template contains several pre-defined UML elements that are necessary to create integration services with the Bridge. It also provides a default package structure for your services and a frontend SOAP interface as a starting point.



Until now, the XMI file is not yet saved in the Builder project. You have to enter a file name first. The file name Builder UML.xmI is suggested.

By default MagicDraw offers you to save the XMI file in an unpacked format (XML Files (.xml)), which is necessary if you need to store the model's version number of your source control system in the UML model. This would not be possible with binary formats. You can also choose to save it in packed XML format. In this case, change the file type to Zipped XML Files (.xml.zip).

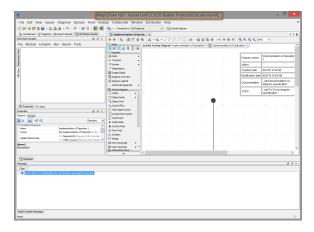


Replace the file name Buil derUML with I esson1. The file will be saved in the default folder uml of the Builder project Educat ion you have created before.

Click OK.

The XMI file **lesson1.xml** containing the UML model has been saved in the Builder project **Education** and is already opened in MagicDraw. The activity diagram **Implementation of Operation 1** is displayed as shown in the picture below.

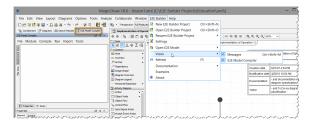
Note that in the MagicDraw title bar the name of the currently opened UML model file **lesson1.xml** is displayed. It is followed by the full path of the Builder project in brackets: **[C:\E2E Builder Projects\Education\uml\]**.

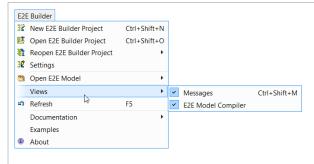


E2E Builder Tools

Select **E2E Builder > Views**. This menu provides menu items to open and close the **Messages** window and the **E2E Model Compiler**.

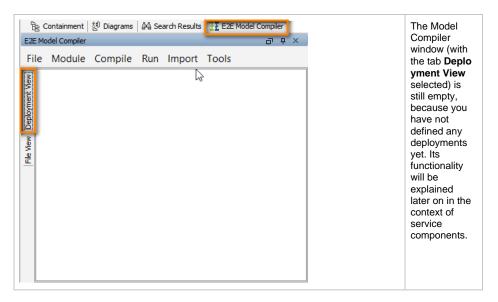
The Views menu is only enabled if you have opened a Builder project before.



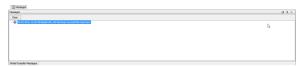


The Messages window and the E2E Model Compiler menu item are currently active (the Model Compiler is displayed on the left side, see picture above).

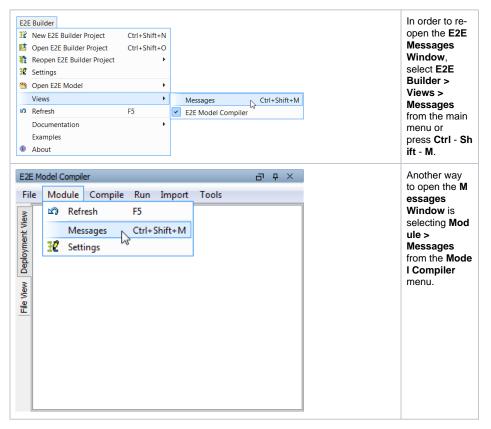
In general, the Model Compiler should not be closed. However, if it was closed for some reason, you can open it again with this menu item.



On the lower left side, the **E2E Messages Window** is displayed. Whenever the Builder writes messages to it, it will be opened automatically. It displays status messages, the result of compilation, and other important messages.



You can close the window at any time by clicking ${\bf X}$ in the upper right corner in order to gain more room for the diagram pane.



Now, close the E2E Messages Window.

Navigating in UML Diagrams

On the upper left side, you can see the structure of the UML model you just saved. This structure is called containment tree and will be discussed step by step during the lessons.

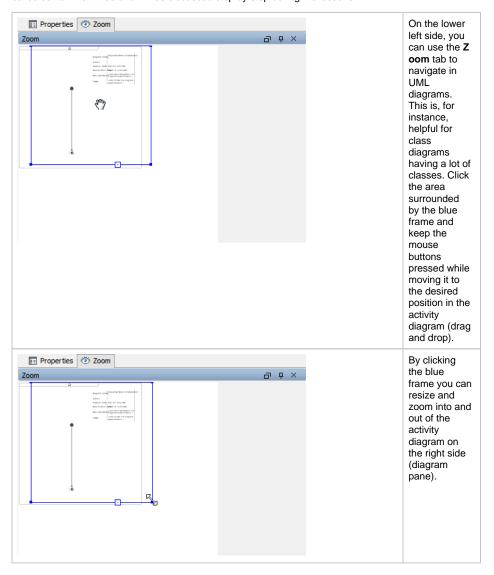


Diagram Info

In UML diagrams, you can display a diagram info box in the upper right corner containing the diagram name, the author who created the diagram, creation and modification date, a short documentation, and a todo field. The todo content is searchable in MagicDraw.

Diagram name	Implementation of Operation
Author	
Creation date	6/21/07 4:54 PM : :
Modification date	4/22/10 10:54 AM
D.o.cum entation	- add documentation via diagram specification -
TODO	- add To Do via diagram specification -

In order to switch on or off the diagram info, click the right mouse button in the diagram to open the context menu. Then, select **Show Diagram Info**.

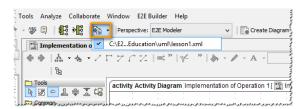
MagicDraw Projects Versus E2E Builder Projects

In MagicDraw, all UML models respectively XMI files are called project. You can open them without having E2E Builder installed via the **File > Open Project** menu.

Working with the Bridge, all UML models, which belong to your software project, are organized within a Builder project, which has its own settings. To work with Bridge models, you need to open a Builder project first in order to edit, compile, and deploy the contained UML models. All models are located in the **uml** folder of the Builder project.

In the title bar of the MagicDraw window, the name of the currently opened model (lesson1.xml) is shown, followed by the path of the currently opened Builder project displayed in brackets [C:\E2E Builder Projects\Education\uml\].

In the Switch Projects toolbar, you can see all UML models (XMI files) currently opened in MagicDraw.



If this toolbar is not displayed yet, enable it via **View > Main Toolbars > Switch Projects**. Alternatively, you can right-click into the toolbar area and select **Switch Projects** from the context menu.