

# Model Documentation

## Introduction

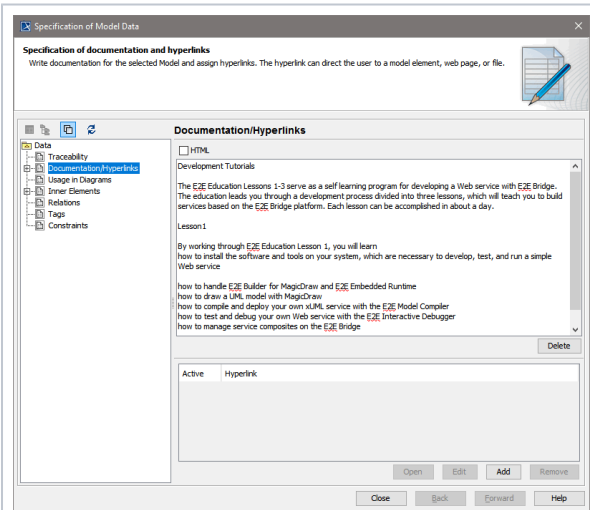
The Builder provides several documentation features to support different kinds of users:

- [modelers](#) who want to modify the service and need a quick overview on the service's use cases, backend access and data structures
- [service consumers](#) who want to call the service and need information on the service interface
- [Bridge operators](#) who need a basic understanding of the service's purpose and features.

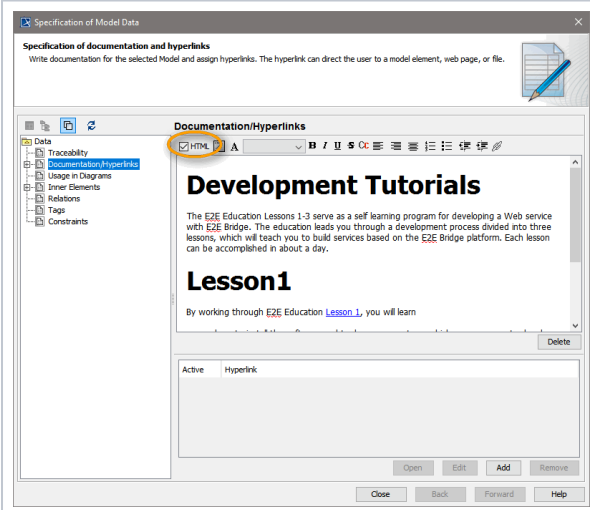
For these documentation purposes, the Builder offers the possibility to add documentation and comment tags to model elements.

## How to Add a Documentation Tag

Lookup the element you want to add documentation to in the containment tree or diagram and open the specification dialog by right-clicking the element and selecting **Specification** from the context menu.



Click **Documentation /Hyperlinks** and start typing in the documentation field.



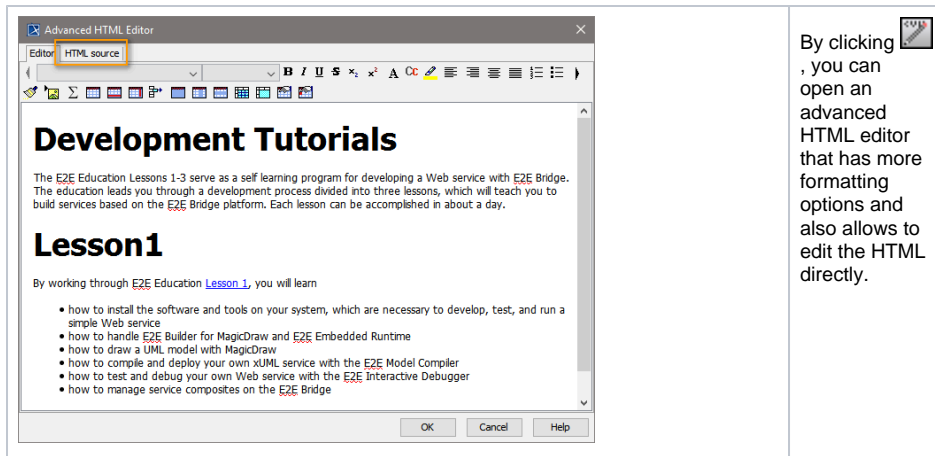
By checking **HTML**, you can also insert HTML formatted documentation.

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- [Naming Conventions and Containment Tree Organisation](#)
- [Model Documentation](#)
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- [REST Interface Documentation and Tags](#)
- [Documentation of an xUML Service](#)



## How to Add Comment Tags

Lookup the element you want to add a comment to in the containment tree and select **Create Element > Comment** from the context menu. Simply start typing to add the comment. Comments can be plain text only.

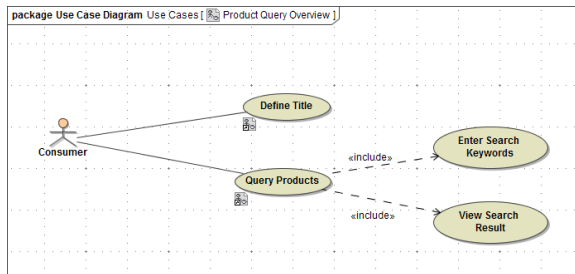
## Service Documentation for Modelers

To give modelers a good overview on the service we recommend to

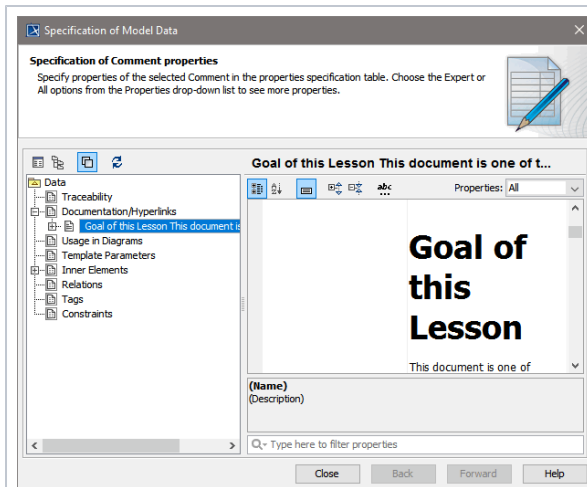
- provide an overview on what the service does by drawing a **use case diagram**
- show the main data structures and relations by drawing a **class diagram**
- give an overview on the main backend processing by drawing a **sequence diagram**
- provide a **change log** in the xml file that is displayed on the Bridge

## Use Case Diagram

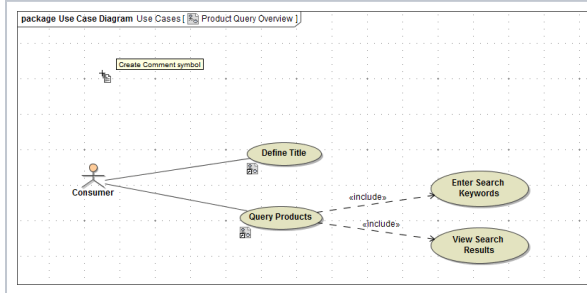
Draw a simple use case diagram describing the main actors and main processing in a package called e.g. **Use Cases**.



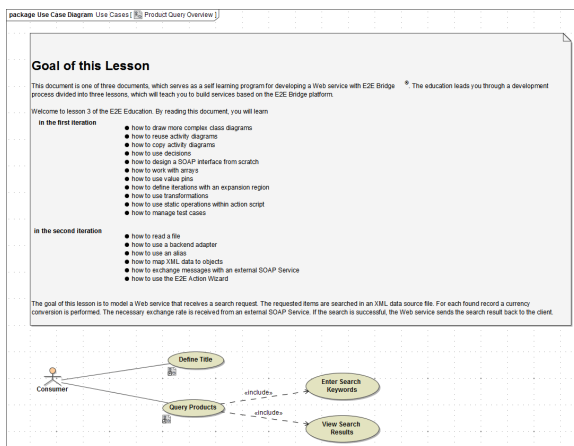
We also recommend to make the documentation that previously has been added to the **Data** package visible by adding it to this diagram. You can do this as follows:



Go to the specification dialog of the **Data** package and select the documentation element.



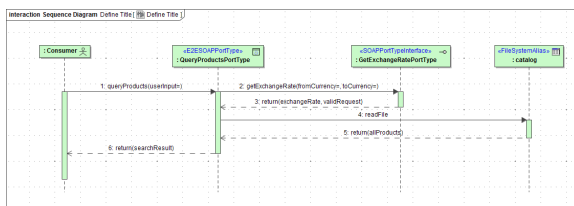
Drag and drop it to the diagram pane.



You can define to not display stereotype **<<documentation>>** (like shown above) via the symbol properties from the context menu.

## Sequence Diagram

Draw a sequence diagram to give an overview on the main backend processing.



## Change Log

Keep a change log table in package **Overview**. Builder 7.4.0 The Builder templates already provide a simple change log table in a use case diagram **Overview**.

package Use Case Diagram Overview [ Overview ]

**Change Log**

| Date       | Author         | Version | Implementation                | Note                             |
|------------|----------------|---------|-------------------------------|----------------------------------|
| 2019-11-05 | David Stringer | 1.2     | ACME-1234: Correlation ID fix | Correlation ID changed to binary |

All information provided here will be visible in the service documentation on the Bridge for Bridge operators to see (see [Service Documentation for Bridge Operators](#) below).

If this default change log table does not suit your needs, you can change it for dedicated models, or you can change the template itself. By changing the template, you can get consistent change logs throughout all services.

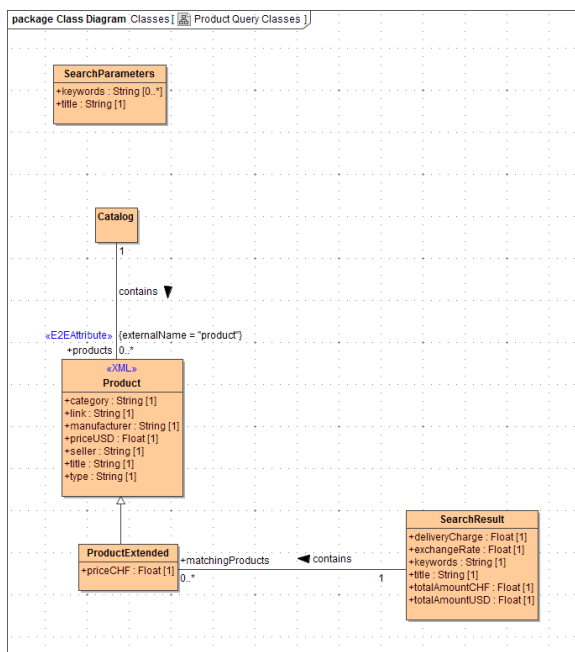
To edit the template, open file **<your user directory>/e2ebuilder/modelDocumentationTemplate.html** with an editor. This file contains the HTML layout of the change log table:

```
<html>
  <head>
  </head>
  <body>
    <h2>Change Log</h2>
    <table class="table">
      <tr>
        <th>Date</th>
        <th>Author</th>
        <th>Version</th>
        <th>Implementation</th>
        <th>Note</th>
      </tr>
      <tr>
        <td></td>
        <td></td>
        <td></td>
        <td></td>
        <td></td>
      </tr>
    </table>
  </body>
</html>
```

Change the table or adorn the HTML with styling as you need.

## Class Diagram

Draw class diagrams for the main structures in dedicated packages (see [Containment Tree Organization](#)).



## Service Documentation for Service Consumers

MagicDraw provides the possibility to add documentation and comment tags to model elements. Documentation and comment tags added to service model elements (service, operation, parameter) are explaining the service interface. They are meant to be read by the service consumer and will be generated to

- to the YAML file for REST services
  - the WSDL file for SOAP services
- For more information see [REST Interface Documentation and Tags](#).

```

<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:tns="urn:GetTitleService"
  xmlns:http="http://schemas.xmlsoap.org/soap/http"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap
/encoding/"
  name="GetTitleService"
  targetNamespace="urn:GetTitleService">
  <wsdl:documentation>Documentation of Service GetTitleService<
/wsdl:documentation>
  <wsdl:types/>
  <wsdl:message name="GetTitlePortType_getTitle_Request">
    <wsdl:part name="inputTitle" type="xs:string">
      <wsdl:documentation>&lt;html&gt;
&lt;head&gt;
  &lt;style&gt;
    p {padding:0px; margin:0px;}
  &lt;/style&gt;
&lt;/head&gt;
&lt;body&gt;
  &lt;p&gt;
&lt;b&gt;&lt;span style="font-size:24pt;"&gt;HTML Documentation of
Parameter in&lt;/span&gt;&lt;/b&gt;

&lt;/p&gt;

&lt;/body&gt;
&lt;/html&gt;</wsdl:documentation>
    <wsdl:documentation>Comment of parameter in</wsdl:
documentation>
    </wsdl:part>
  </wsdl:message>
  <wsdl:message name="GetTitlePortType_getTitle_Response">

```

```

        <wsdl:part name="outputTitle" type="xs:string"/>
    </wsdl:message>
    <wsdl:portType name="GetTitlePortType">
        <wsdl:documentation>The port type provides an operation to
        copy a string and convert it to upper case. That string is used as
        title in the client application.</wsdl:documentation>
        <wsdl:operation name="getTitle">
            <wsdl:documentation>The operation defines an interface to
            copy a simple string, convert it to upper case and return it to the
            client application.</wsdl:documentation>
            <wsdl:documentation>Comment on operation GetTitle</wsdl:
            documentation>
            <wsdl:input message="tns:GetTitlePortType_getTitle_Request"
            />
            <wsdl:output message="tns:
            GetTitlePortType_getTitle_Response"/>
        </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="GetTitlePortType_SOAPBinding" type="tns:
    GetTitlePortType">
        <soap:binding style="rpc" transport="http://schemas.xmlsoap.org
        /soap/http"/>
        <wsdl:operation name="getTitle">
            <soap:operation soapAction=""/>
            <wsdl:input>
                <soap:body encodingStyle="http://schemas.xmlsoap.org/soap
                /encoding/"
                namespace="urn:Services.GetTitleService.Ports.
                GetTitlePortType"
                use="encoded"/>
            </wsdl:input>
            <wsdl:output>
                <soap:body encodingStyle="http://schemas.xmlsoap.org/soap
                /encoding/"
                namespace="urn:Services.GetTitleService.Ports.
                GetTitlePortType"
                use="encoded"/>
            </wsdl:output>
        </wsdl:operation>
    </wsdl:binding>
    <wsdl:service name="GetTitleService">
        <wsdl:documentation>Documentation of Service GetTitleService<
        /wsdl:documentation>
        <wsdl:documentation>Comment on Service GetTitlService</wsdl:
        documentation>
        <wsdl:port binding="tns:GetTitlePortType_SOAPBinding" name="
        GetTitlePortType">
            <soap:address location="http://${wsdl_host_urn:
            Component_View.Composites.EducationLesson1.GetTitleService}:10011
            /GetTitleService/GetTitlePortType"/>
        </wsdl:port>
    </wsdl:service>
</wsdl:definitions>

```

## Service Documentation for Bridge Operators

Like with all other model elements, you can also add documentation to the **Data** package. This documentation will be available for reading and editing on the Bridge. See [Documentation of an xUML Service](#) for more information on that feature.

If service modelers provided a change log table with their deployed services, this change log will be visible in the **Model Notes** section of the **Documentation** tab.

Documentation

Custom Notes Model Notes

Documents sapInterface

Change Log

| Date       | Author         | Version | Implementation                | Note                             |
|------------|----------------|---------|-------------------------------|----------------------------------|
| 2019-11-05 | David Stringer | 1.2     | ACME-1234: Correlation ID fix | Correlation ID changed to binary |