

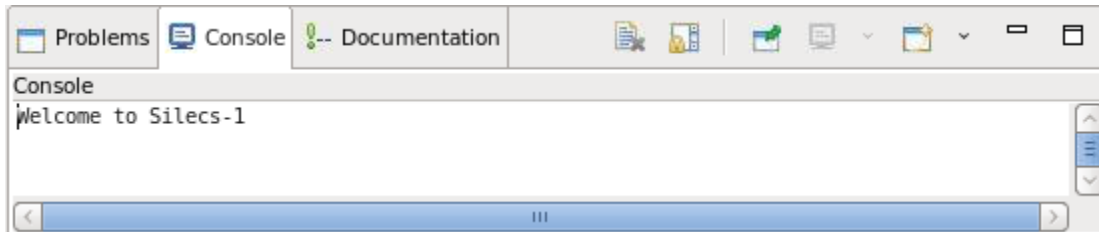
4. Working with the document

1. Console View

All important messages such as:

- results of validation,
- results of generation,
- updating rights
- etc




are displayed in the console.



2. Validation

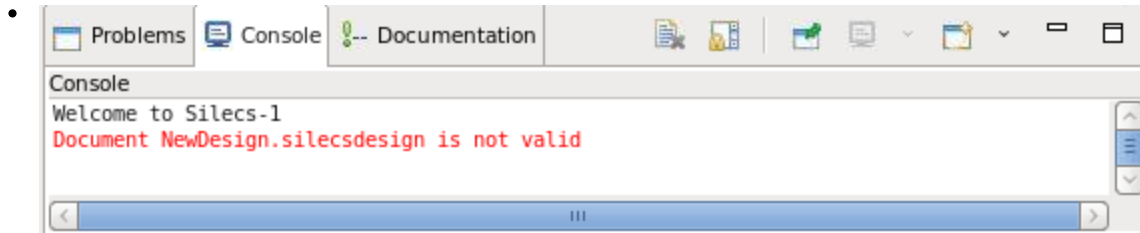
First thing user should do is to make sure that a document he/she modifies is valid. Since every silecs file is an xml file silecs editor is modified eclipse xml editor.


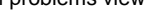
User can validate the document in one of three ways.

- Using validate toolbar button:
 -  this button is visible only if any silecs document is opened.
- Saving changes made in document:
 - 
- Using Validate All button
 -  This will validate all the documents in the workspace.

Lets just validate single document. If the document is not valid user will be notified in following ways:

- Notification in console view:



- Marker in project explorer at the projects icon.
 - 
- Errors in problems view
 - 

Problems

Console

Documentation

12 errors, 0 warnings, 0 others

Description

Resource

Path

Location

Type

▼ Errors (12 items)

■ cvc-attribute.3: The value "" of attribute 'array-dim1' on element 'Register' is not valid with respect to its type, 'DimensionType'.

NewDesign.s

/NewDesign_1.0.0

line 11

%silecs.marker.problem

■ cvc-attribute.3: The value "" of attribute 'format' on element 'Register' is not valid with respect to its type, 'FormatType'.

NewDesign.s

/NewDesign_1.0.0

line 11

%silecs.marker.problem

■ cvc-attribute.3: The value "" of attribute 'mode' on element 'Block' is not valid with respect to its type, 'null'.

NewDesign.s

/NewDesign_1.0.0

line 10

%silecs.marker.problem

■ cvc-attribute.3: The value "" of attribute 'name' on element 'Block' is not valid with respect to its type, 'MediumNameType'.

NewDesign.s

/NewDesign_1.0.0

line 10

%silecs.marker.problem

- Validation markers in xml editor.

- Source page:

```

<?xml version="1.0" encoding="UTF-8"?>
<SILECS-Design silecs-version="SILECS-0.m.p" created="03/06/15" updated="03/06/15"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="../../schemas/DesignSchema.xsd">
  <Information>
    <Owner user-login="jwegrzyn"/>
    <Editor user-login="ieplcop"/>
  </Information>
  <SILECS-Class name="NewDesign" version="1.0.0" domain="OPERATIONAL">
    <Block name="" mode="">
      <Register name="" format="" array-dim1="" synchro=""/>
    </Block>
  </SILECS-Class>
</SILECS-Design>

```

- Design page:

Node	Content
?? xml	version="1.0" encoding="UTF-8"
▼ SILECS-Design	(Information, SILECS-Class)
silecs-version	SILECS-0.m.p
created	03/06/15
updated	03/06/15
xmlns:xsi	http://www.w3.org/2001/XMLSchema-instance
xsi:noNamespaceSchemaLocation	../../schemas/DesignSchema.xsd
Information	(Owner, (Editor* User*)+)
▼ SILECS-Class	(Description?, Block+)
name	NewDesign
version	1.0.0
domain	OPERATIONAL
▼ Block	(Description?, Register+)
name	
mode	
▶ Register	(Description?)

When a document is valid, proper notification will be displayed in the console:

```

Console
Welcome to Silecs-1
Document NewDesign.silecsdesign is not valid
Document NewDesign.silecsdesign is valid


```

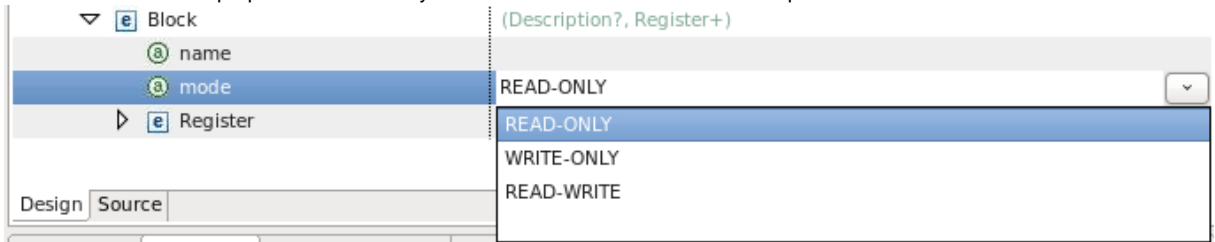
3. Editor

In XML editor used in Silecs user can edit a document in two places: source and design page.

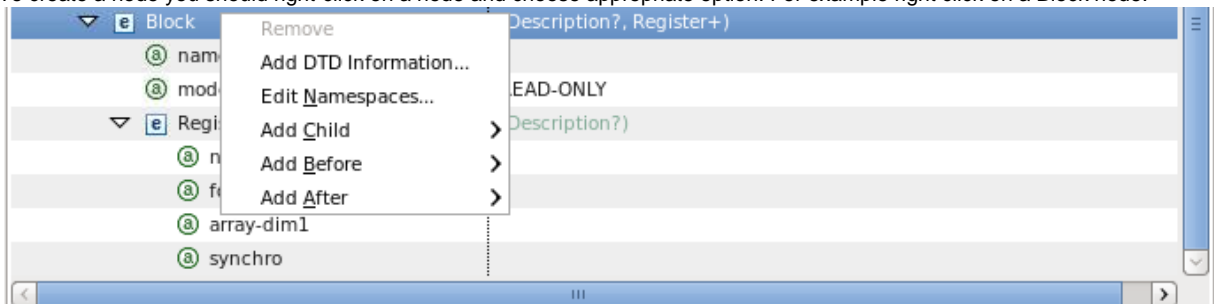
It is up to user which one to use though design page is a safer solution.

Design page

- Expanding the node:
 - To expand the node you need to click on  next to node name.
- Proposed values:
 - In some cases the tool proposes values that you can insert in some node. For example mode in Block node:

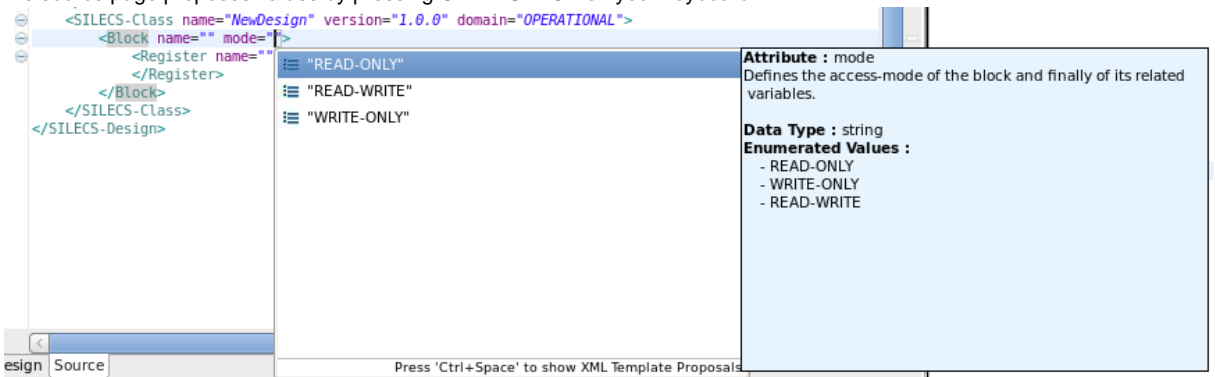


- Creating a node:
 - To create a node you should right-click on a node and choose appropriate option. For example right click on a Block node:

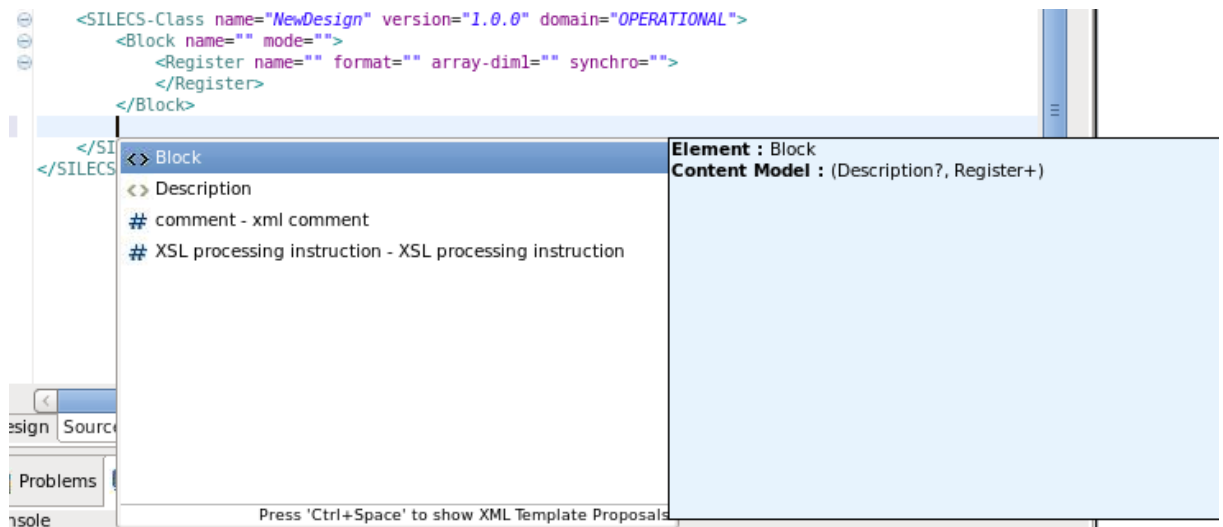


Source page

- All nodes should be expanded by default. To hide/expand them you should click on +/- next to the node name.
- ```
<SILECS-Class name="NewDesign" version="1.0.0" domain="OPERATIONAL">
 <Block name="" mode="READ-ONLY">
 <Register name="" format="" array-dim1="" synchro="">
 </Block>
</SILECS-Class>
```
- Proposed values.
  - The source page proposes values by pressing CTRL+SPACE on your keyboard.

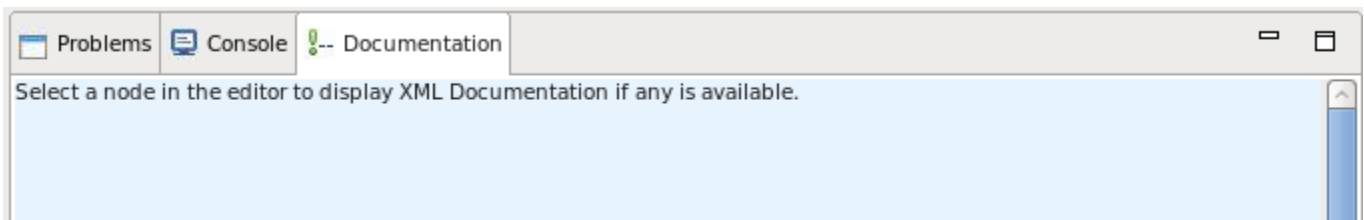


- Creating a new node:
-

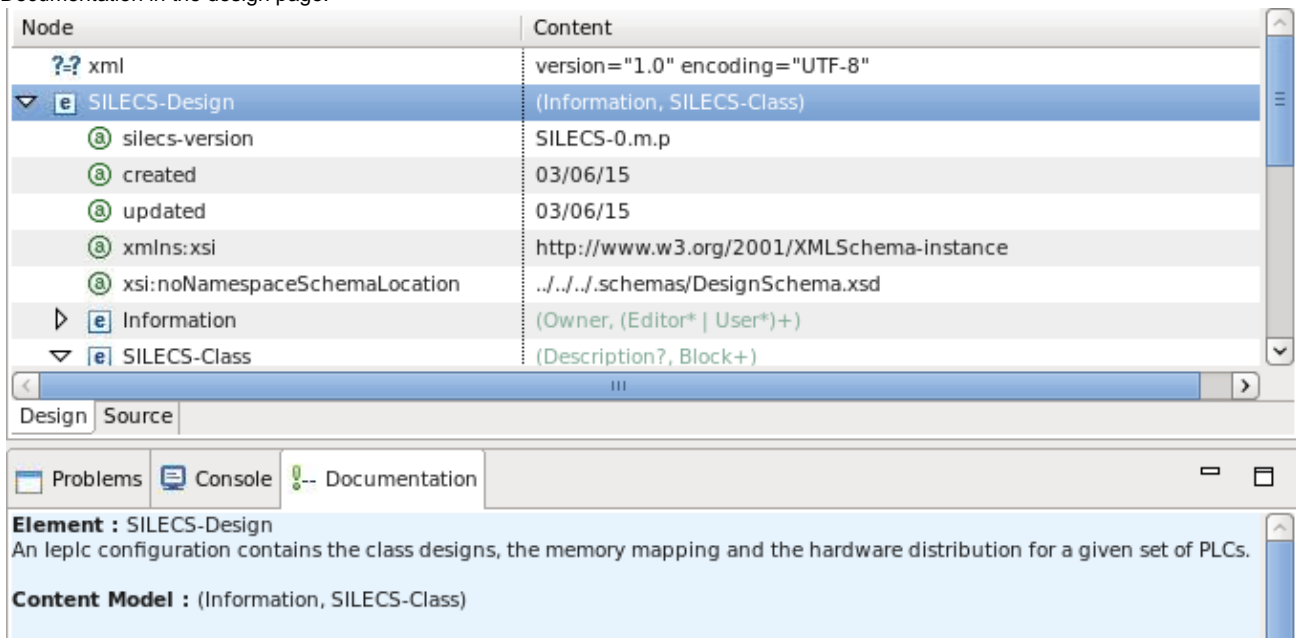


## Documentation

Documentation is available for design and source page by selecting a single node.



- Documentation in the design page:



- Documentation in the source page:  
It is displayed in the Documentation view and in the editor, when user focus mouse cursor on a node.

The screenshot shows the SILECS-Design XML editor with the following XML content:

```
<?xml version="1.0" encoding="UTF-8"?>
<SILECS-Design silecs-version="SILECS-0.m.p" created="03/06/15"
 updated="03/06/15" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:noNamespaceSchemaLocation="../../../../schemas/DesignSchema.xsd">
 <Information>
 <Owner user-login="jwegrzyn" />
 <Editor user-login="ieplcop" />
 </Information>
 <SILECS-Class name="NewDesign" version="1.0.0" domain="OPERATIONAL">
 <Block name="" mode="WRITE-ONLY">
 <Register name="" format="" array-dim1="" sync="" />
 </Block>
 </SILECS-Class>
</SILECS-Design>
```

The 'SILECS-Class' node is selected, and a tooltip is displayed for the 'domain' attribute. The tooltip contains the following information:

- Attribute :** domain
- Defines the domain of use of the class: Operation or Test
- Data Type :** string
- Enumerated Values :**
  - TEST
  - OPERATIONAL

The bottom of the editor shows the 'Design' and 'Source' tabs, and the 'Problems', 'Console', and 'Documentation' panels.