



EIS GROUP™

**Maven Plugin Guide
OpenL Tablets BRMS
Release 5.17**



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1 Preface

This preface is an introduction to the *OpenL Tablets Maven Plugin Guide*.

The following topics are included in this preface:

- [Related Information](#)
- [Typographic Conventions](#)

1.1 Related Information

The following table lists sources of information related to contents of this guide:

Related information	
Title	Description
http://openl-tablets.org/	OpenL Tablets home page.

1.2 Typographic Conventions

The following styles and conventions are used in this guide:

Typographic styles and conventions	
Convention	Description
Bold	<ul style="list-style-type: none"> • Represents user interface items such as check boxes, command buttons, dialog boxes, drop-down list values, field names, menu commands, menus, option buttons, perspectives, tabs, tooltip labels, tree elements, views, and windows. • Represents keys, such as F9 or CTRL+A. • Represents a term the first time it is defined.
Courier	Represents file and directory names, code, system messages, and command-line commands.
Courier Bold	Represents emphasized text in code.
Select File > Save As	Represents a command to perform, such as opening the File menu and selecting Save As .
<i>Italic</i>	<ul style="list-style-type: none"> • Represents any information to be entered in a field. • Represents documentation titles.
< >	Represents placeholder values to be substituted with user specific values.
Hyperlink	Represents a hyperlink. Clicking a hyperlink displays the information topic or external source.
<i>[name of guide]</i>	Reference to another guide that contains additional information on a specific feature.

2 Introduction

Access to rules and data in Excel tables is realized through OpenL Tablets API. OpenL Tablets provides wrappers to developers to facilitate easier usage.

This plugin is used to generate interface to access the rules, to validate rules during compilation phase, and to run OpenL Tablets tests.

The following topics are included in this section:

- [Goals Overview](#)
- [Usage Overview](#)

To acquire a better understanding of plugin name usage, see the following examples:

- [Configuration with all OpenL Maven Plugin Goals](#)
- [Creating a Project with a Working Example of OpenL Maven Plugin Usage](#)

2.1 Goals Overview

General information about the goals is as follows:

General information about the goals	
Link to the goal section	Description
openl:generate	Generates OpenL Tablets interface, domain classes, and project descriptor.
openl:compile	Compiles the OpenL Tablets project.
openl:test	Runs OpenL Tablets tests.
openl:help	Displays help information on openl-maven-plugin.

2.2 Usage Overview

General instructions on how to use the plugin name can be found in [Usage](#). This section provides specific configuration example.

Specify the version in the project plugin configuration as follows:

```
<project>
...
<build>
  <!-- To define the plugin version in your parent POM -->
  <pluginManagement>
    <plugins>
      <plugin>
        <groupId>org.openl.rules</groupId>
        <artifactId>openl-maven-plugin</artifactId>
        <version>${openl.version}</version>
      </plugin>
      ...
    </plugins>
  </pluginManagement>
  <!-- To use the plugin goals in your POM or parent POM -->
```

```
<plugins>
  <plugin>
    <groupId>org.openl.rules</groupId>
    <artifactId>openl-maven-plugin</artifactId>
    <version>${openl.version}</version>
  </plugin>
  ...
</plugins>
</build>
...
</project>
```

3 Goals

This section includes the following topics:

- [openl:generate](#)
- [openl:compile](#)
- [openl:test](#)
- [openl:help](#)

3.1 openl:generate

Full name:

`org.openl.rules:openl-maven-plugin:5.X.X:generate`

Description:

Generates OpenL Tablets interface, domain classes, project descriptor, and unit tests.

Attributes:

Requires a Maven project to be executed.

By default, binds to the **generate-sources** lifecycle phase.

Required Parameters

Required parameters for openl:generate			
Name	Type	Since	Description
generateInterfaces	JavaAntTask[]	-	Tasks that will generate classes.
Object Properties			
Name	Type	Required	Description
srcFile	String	true	Reference to the Excel file for which an interface class must be generated.
targetClass	String	true	Full name of the interface class to be generated. OpenL Tablets WebStudio recognizes modules in projects by interface classes and uses their names in UI. If there are multiple wrappers with identical names, only one of them is recognized as a module in OpenL Tablets WebStudio.

Required parameters for openl:generate						
Name	Type	Since	Description			
			displayName	String	false	End user oriented title of the file that appears in OpenL Tablets WebStudio. Default value: the Excel file name without extension.
			targetSrcDir	String	false	Folder where the generated interface class must be placed. An example is <code>src/main/java</code> . Default value: <code>\${project.build.sourceDirectory}</code> .
			openlName	String	false	OpenL configuration to be used. For OpenL Tablets, the <code>org.openl.xls</code> value must always be used. Default value: <code>org.openl.xls</code> .
			userHome	String	false	Location of user-defined resources relative to the current OpenL Tablets project. Default value: . The dot stands for the current folder.
			userClassPath	String	false	Reference to the folder with additional compiled classes imported by the module when the interface is generated. Default value: <code>null</code> .
			ignoreTestMethods	boolean	false	Parameter which denotes, if set to <code>true</code> , that test methods must not be added to the interface class. It is used only in <code>JavaInterfaceAntTask</code> . Default value: <code>true</code> .
			generateUnitTests	boolean	false	Parameter that overwrites the base <code>generateUnitTests</code> value.
			unitTestTemplatePath	String	false	Parameter that overwrites the base <code>unitTestTemplatePath</code> value.
			overwriteUnitTests	boolean	false	Parameter that overwrites the base <code>overwriteUnitTests</code> value.

Optional Parameters

Optional parameters for <code>openl:generate</code>																	
Name	Type	Since	Description														
<code>classpaths</code>	<code>String[]</code>	-	Default classpath entries in <code>rules.xml</code> . Default value: . The dot stands for the current folder. It is used only if <code>createProjectDescriptor == true</code> .														
<code>createProjectDescriptor</code>	<code>boolean</code>	-	Parameter which denotes, if set to <code>true</code> , that <code>rules.xml</code> will be generated if it does not exist. Default value: <code>true</code> .														
<code>generateUnitTests</code>	<code>Boolean</code>	-	Parameter which denotes, if set to <code>true</code> , that JUnit tests for OpenL Tablets Test tables will be generated. Default value: <code>false</code> .														
<code>openlOutputDirectory</code>	<code>String</code>	-	Folder used by OpenL to compile rules. An example is <code>\${project.build.directory}/openl</code> . Default value: <code>\${project.build.directory}/openl</code> .														
<code>openlResourcesDirectory</code>	<code>String</code>	-	Folder that contains all OpenL-related resources, such as OpenL Tablets rules and project descriptor. An example is <code>\${project.basedir}/src/main/openl</code> . Default value: <code>\${project.basedir}/src/main/openl</code> .														
<code>overwriteProjectDescriptor</code>	<code>boolean</code>	-	Parameter which denotes, if set to <code>true</code> , that <code>rules.xml</code> will be overwritten on each run. Makes sense only if <code>createProjectDescriptor == true</code> . Default value: <code>true</code> .														
<code>overwriteUnitTests</code>	<code>Boolean</code>	-	Parameter which denotes, if set to <code>true</code> , that existing JUnit tests will be overwritten. If set to <code>false</code> , only absent tests will be generated, and others will be skipped. Default value: <code>false</code> .														
<code>projectName</code>	<code>String</code>	-	Default project name in <code>rules.xml</code> . If omitted, the name of the first module in the project is used. The parameter is used only if <code>createProjectDescriptor == true</code> .														
<code>unitTestTemplatePath</code>	<code>String</code>	-	Path to the Velocity template for generated unit tests. If omitted, default template is used. It is available in the following template variables:														
<table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><code>openlInterfacePackage</code></td> <td>Package of generated interface class.</td> </tr> <tr> <td><code>openlInterfaceClass</code></td> <td>Generated interface class name.</td> </tr> <tr> <td><code>testMethodNames</code></td> <td>Available test method names.</td> </tr> <tr> <td><code>projectRoot</code></td> <td>Root directory of OpenL project.</td> </tr> <tr> <td><code>srcFile</code></td> <td>Reference to the Excel file for which an interface class must be generated.</td> </tr> <tr> <td><code>StringUtils</code></td> <td>Apache commons utility class.</td> </tr> </tbody> </table>				Name	Description	<code>openlInterfacePackage</code>	Package of generated interface class.	<code>openlInterfaceClass</code>	Generated interface class name.	<code>testMethodNames</code>	Available test method names.	<code>projectRoot</code>	Root directory of OpenL project.	<code>srcFile</code>	Reference to the Excel file for which an interface class must be generated.	<code>StringUtils</code>	Apache commons utility class.
Name	Description																
<code>openlInterfacePackage</code>	Package of generated interface class.																
<code>openlInterfaceClass</code>	Generated interface class name.																
<code>testMethodNames</code>	Available test method names.																
<code>projectRoot</code>	Root directory of OpenL project.																
<code>srcFile</code>	Reference to the Excel file for which an interface class must be generated.																
<code>StringUtils</code>	Apache commons utility class.																
Default value: <code>org/openl/rules/maven/JUnitTestTemplate.vm</code> .																	

Parameter Details

classpaths:

Default classpath entries in `rules.xml`. The default value is an array containing one string with a dot `.` where the dot stands for the current folder. It is used only if `createProjectDescriptor == true`.

- **Type:** `java.lang.String[]`
- **Required:** No

createProjectDescriptor:

Parameter which denotes, if set to `true`, that `rules.xml` will be generated if it does not exist. The default value is `true`.

- **Type:** `boolean`
- **Required:** No
- **Default:** `true`

generateInterfaces:

Tasks that generates classes.

Object Properties

Object properties			
Name	Type	Required	Description
<code>srcFile</code>	<code>String</code>	<code>true</code>	Reference to the Excel file for which an interface class must be generated.
<code>targetClass</code>	<code>String</code>	<code>true</code>	Full name of the interface class to be generated. OpenL Tablets WebStudio recognizes modules in projects by interface classes and uses their names in the user interface. If there are multiple wrappers with identical names, only one of them is recognized as a module in OpenL Tablets WebStudio.
<code>displayName</code>	<code>String</code>	<code>false</code>	End user oriented title of the file that appears in OpenL Tablets WebStudio. Default value: the Excel file name without extension.
<code>targetSrcDir</code>	<code>String</code>	<code>false</code>	Folder where the generated interface class must be placed. An example is <code>src/main/java</code> . Default value: <code>\${project.build.sourceDirectory}</code> .
<code>openlName</code>	<code>String</code>	<code>false</code>	OpenL configuration to be used. For OpenL Tablets, the <code>org.openl.xls</code> value must always be used. Default value: <code>org.openl.xls</code> .
<code>userHome</code>	<code>String</code>	<code>false</code>	Location of user-defined resources relative to the current OpenL Tablets project. Default value: . The dot stands for the current folder.
<code>userClassPath</code>	<code>String</code>	<code>false</code>	Reference to the folder with additional compiled classes imported by the module when the interface is generated. Default value: <code>null</code> .

Object properties			
Name	Type	Required	Description
ignoreTestMethods	boolean	false	Parameter which denotes, if set to <code>true</code> , that test methods will not be added to interface class. It is used only in <code>JavaInterfaceAntTask</code> . Default value: <code>true</code> .
generateUnitTests	boolean	false	Parameter that overwrites the base <code>generateUnitTests</code> value.
unitTestTemplatePath	String	false	Parameter that overwrites the base <code>unitTestTemplatePath</code> value.
overwriteUnitTests	boolean	false	Parameter that overwrites the base <code>overwriteUnitTests</code> value.

- **Type:** `org.openl.conf.ant.JavaAntTask[]`
- **Required:** Yes

generateUnitTests:

If set to `true`, JUnit tests for OpenL Tablets Test tables will be generated. The default value is `false`.

- **Type:** `java.lang.Boolean`
- **Required:** No
- **Default:** `false`

openlOutputDirectory:

Folder used by OpenL to compile rules. An example is `${project.build.directory}/openl`.

- **Type:** `java.lang.String`
- **Required:** No
- **Default:** `${project.build.directory}/openl`

openlResourcesDirectory:

Folder that contains all OpenL Tablets-related resources, such as OpenL Tablets rules and project descriptor. An example is `${project.basedir}/src/main/openl`.

- **Type:** `java.lang.String`
- **Required:** No
- **Default:** `${project.basedir}/src/main/openl`

overwriteProjectDescriptor:

If set to `true`, `rules.xml` will be overwritten on each run. If set to `false`, `rules.xml` generation will be skipped if it exists. Makes sense only if `createProjectDescriptor == true`. The default value is `"true"`.

- **Type:** `boolean`
- **Required:** No
- **Default:** `true`

overwriteUnitTests:

If set to `true`, existing JUnit tests will be overwritten. If set to `false`, only absent tests will be generated, and others will be skipped.

- **Type:** `java.lang.Boolean`
- **Required:** No
- **Default:** `false`

projectName:

Default project name in `rules.xml`. If omitted, the name of the first module in the project is used. The parameter is used only if `createProjectDescriptor == true`.

- **Type:** `java.lang.String`
- **Required:** No

unitTestTemplatePath:

Path to Velocity template for generated unit tests. If omitted, a default template will be used. The parameter is available in template variables:

Variables	
Name	Description
<code>openInterfacePackage</code>	Package of generated interface class.
<code>openInterfaceClass</code>	Generated interface class name.
<code>testMethodNames</code>	Available test method names.
<code>projectRoot</code>	Root directory of OpenL project.
<code>srcFile</code>	Reference to the Excel file for which an interface class must be generated.
<code>StringUtils</code>	Apache commons utility class.

- **Type:** `java.lang.String`
- **Required:** No
- **Default:** `org/openl/rules/maven/JUnitTestTemplate.vm`

3.2 openl:compile

Full name:

`org.openl.rules:openl-maven-plugin:5.13.0:compile`

Description:

Compiles and validates OpenL Tablets project.

Attributes:

- Requires a Maven project to be executed.
- Binds by default to the **compile** lifecycle phase.

Optional Parameters

Optional parameters for openl:compile			
Name	Type	Since	Description
<code>openOutputDirectory</code>	String	-	Folder used by OpenL Tablets to compile rules. An example is <code>\${project.build.directory}/openl</code> . Default value: <code>\${project.build.directory}/openl</code> .
<code>openResourcesDirectory</code>	String	-	Folder that contains all OpenL Tablets-related resources, such as OpenL Tablets rules and project descriptor. An example is <code>\${project.basedir}/src/main/openl</code> . Default value: <code>\${project.basedir}/src/main/openl</code> .

Parameter Details

openOutputDirectory:

Folder used by OpenL to compile rules. An example is `${project.build.directory}/openl`.

- **Type:** `java.lang.String`
- **Required:** No
- **Default:** `${project.build.directory}/openl`

openResourcesDirectory:

Folder that contains all OpenL Tablets-related resources, such as OpenL Tablets rules and project descriptor. An example is `${project.basedir}/src/main/openl`.

- **Type:** `java.lang.String`
- **Required:** No
- **Default:** `${project.basedir}/src/main/openl`

3.3 openl:test

Full name:

`org.openl.rules:openl-maven-plugin:5.13.0:test`

Description:

Runs OpenL tests.

Attributes:

- Requires a Maven project to be executed.
- Binds by default to the **test** lifecycle phase.

Optional Parameters

Optional parameters for openl:test			
Name	Type	Since	Description
openOutputDirectory	String	-	Folder used by OpenL Tablets to compile rules. An example is <code>\${project.build.directory}/openl</code> . Default value: <code>\${project.build.directory}/openl</code> .
openResourcesDirectory	String	-	Folder that contains all OpenL Tablets-related resources, such as OpenL Tablets rules and project descriptor. An example is <code>"\${project.basedir}/src/main/openl"</code> . Default value: <code>\${project.basedir}/src/main/openl</code> .
skipTests	boolean		Parameter which denotes, if set to <code>true</code> , to skip running OpenL Tablets tests. User property: <code>skipTests</code> .

Parameter Details

openOutputDirectory:

Folder used by OpenL Tablets to compile rules. An example is `${project.build.directory}/openl`.

- **Type:** `java.lang.String`
- **Required:** No
- **Default:** `${project.build.directory}/openl`

openlResourcesDirectory:

Folder that contains all OpenL Tablets-related resources, such as OpenL Tablets rules and project descriptor. An example is `${project.basedir}/src/main/openl`.

- **Type:** `java.lang.String`
- **Required:** No
- **Default:** `${project.basedir}/src/main/openl`

skipTests:

Parameter which denotes, if set to `true`, to skip running OpenL Tablets tests.

- **Type:** `boolean`
- **Required:** No
- **User Property:** `skipTests`

3.4 openl:help

Full name:

`org.openl.rules:openl-maven-plugin:5.13.0:help`

Description:

Displays help information on `openl-maven-plugin`.

Calls `mvn openl:help -Ddetail=true -Dgoal=<goal-name>` to display parameter details.

Attributes:

- The goal is thread-safe and supports parallel builds.

Optional Parameters

Optional parameters for openl:help			
Name	Type	Since	Description
detail	boolean	-	Parameter which denotes, if set to <code>true</code> , to display all settable properties for each goal. Default value: <code>false</code> . User property: <code>detail</code> .
goal	String	-	Name of the goal for which to display help. If left unspecified, all goals are displayed. User property: <code>goal</code> .
indentSize	int	-	Number of spaces per indentation level. The value must be positive. Default value: <code>2</code> . User property: <code>indentSize</code> .
lineLength	int	-	Maximum length of a display line. The value must be positive.

Optional parameters for open:help			
Name	Type	Since	Description
			Default value: 80. User property: <code>lineLength</code> .

Parameter Details

detail:

Parameter which denotes, if set to `true`, to display all settable properties for each goal.

- **Type:** `boolean`
- **Required:** No
- **User Property:** `detail`
- **Default:** `false`

goal:

The name of the goal for which help must be displayed. If left unspecified, all goals are displayed.

- **Type:** `java.lang.String`
- **Required:** No
- **User Property:** `goal`

indentSize:

The number of spaces per indentation level. The value must be positive.

- **Type:** `int`
- **Required:** No
- **User Property:** `indentSize`
- **Default:** 2

lineLength:

The maximum length of a display line. The value must be positive.

- **Type:** `int`
- **Required:** No
- **User Property:** `lineLength`
- **Default:** 80

4 Usage

This section includes the following topics:

- [Directory Structure](#)
- [Configure Interface, Domain Classes and Project Descriptor Generation](#)
- [Configure OpenL Project Compilation and Validation](#)
- [Configure OpenL Project Testing](#)

4.1 Directory Structure

OpenL Maven Plugin expects the following directory structure:

```

|- your-project/                Project root folder
| |- pom.xml                    Maven project file
| |
| |- src/
| |
| | |- main/
| | |
| | | |- java/                  Contains Java sources
| | | |
| | | |- resources/            Contains Java resources
| | | |
| | | |- openl/                 Contains all OpenL Tablets-related resources (rules, xml)
| | | |
| | | | |- rules.xml            OpenL Tablets project descriptor (for OpenL Tablets only)
| | | | |- rules/
| | | | | |- TemplateRules.xls   File with rules

```

Note that OpenL Tablets-related resources are located in the `src/main/openl` directory. It can be changed to fit user needs by modifying the `openlResourcesDirectory` parameter in Maven plugin configuration.

Note: It is not recommended to put OpenL Tablets-related resources to the `src/main/resources` folder. In this case, OpenL Tablets resources will be inside the JAR file alongside with the compiled Java classes, which most probably is not what was expected to do in production.

4.2 Configure Interface, Domain Classes and Project Descriptor Generation

The simplest way to generate interface for rules is defined in the `TemplateRules.xls` file as follows:

```

<build>
  [...]
  <plugins>
    [...]
    <plugin>
      <groupId>org.openl.rules</groupId>
      <artifactId>openl-maven-plugin</artifactId>
      <version>${openl.rules.version}</version>
      <configuration>
        <generateInterfaces>
          <generateInterface>

```



```

        <srcFile>src/main/openl/rules/TemplateRules.xls</srcFile>
        <targetClass>org.company.gen.TemplateRulesInterface</targetClass>
    </generateInterface>
</generateInterfaces>
</configuration>
<executions>
    <execution>
        <goals>
            <goal>generate</goal>
        </goals>
    </execution>
</executions>
</plugin>

</plugins>
[...]
```

In this case, classes and `rules.xml` are generated on each Maven run during the **generate-sources** phase.

To invoke class generation manually, remove the `executions` node and run in the console when needed:

```
mvn openl:generate
```

For more information on configuration options, see [openl:generate](#).

4.3 Configure OpenL Project Compilation and Validation

```

<build>
  [...]
  <plugins>
    [...]
    <plugin>
      <groupId>org.openl.rules</groupId>
      <artifactId>openl-maven-plugin</artifactId>
      <version>${openl.rules.version}</version>
      <executions>
        <execution>
          <goals>
            <goal>compile</goal>
          </goals>
        </execution>
      </executions>
    </plugin>

  </plugins>
  [...]
</build>
```

For more information on configuration options, see [openl:compile](#).

4.4 Configure OpenL Project Testing

The simplest way to invoke the OpenL Tablets test is as follows:

```

<build>
  [...]
  <plugins>
    [...]
    <plugin>
```

```

    <groupId>org.openl.rules</groupId>
    <artifactId>openl-maven-plugin</artifactId>
    <version>${openl.rules.version}</version>
    <executions>
      <execution>
        <goals>
          <goal>test</goal>
        </goals>
      </execution>
    </executions>
  </plugin>

</plugins>
[...]
```

For more information on configuration options, see [openl:test](#).

To gain more control over tests and invoke and debug them from the Java code, generate JUnit tests. Do not use the `test` goal. Instead, configure the `generate` goal as follows:

```

<build>
  [...]
  <plugins>
    [...]
    <plugin>
      <groupId>org.openl.rules</groupId>
      <artifactId>openl-maven-plugin</artifactId>
      <version>${openl.rules.version}</version>
      <configuration>
        <generateUnitTests>true</generateUnitTests>
        <generateInterfaces>
          [...]
        </generateInterfaces>
      </configuration>
      <executions>
        <execution>
          <goals>
            <goal>generate</goal>
          </goals>
        </execution>
      </executions>
    </plugin>

  </plugins>
  [...]
</build>
```

To define a user custom template for JUnits tests, set the `unitTestTemplatePath` parameter with a path to the user's custom Velocity template. For example, consider

`<unitTestTemplatePath>src/test/resources/MyTemplate.vm</unitTestTemplatePath>`. An example of such template is as follows:

```

#if ($openlInterfacePackage)
package $openlInterfacePackage;
#end

import org.junit.Before;
import org.junit.Test;
import org.openl.rules.runtime.RulesEngineFactory;
import org.openl.rules.testmethod.TestUnitsResults;

import java.io.File;
```

```
import static org.junit.Assert.assertTrue;

#set( $openInterfaceClassWithTests = "${openInterfaceClass}WithTests" )

public class ${openInterfaceClass}Test {
    private static interface $openInterfaceClassWithTests extends $openInterfaceClass {
#foreach( $testMethodName in $testMethodNames )
        TestUnitsResults $testMethodName();
#end
    }

    private $openInterfaceClassWithTests instance;

    @Before
    public void setUp() throws Exception {
        File xlsFile = new File("$projectRoot", "$srcFile");
        instance = new RulesEngineFactory<$openInterfaceClassWithTests>(
            xlsFile,
            ${openInterfaceClassWithTests}.class
        ).newEngineInstance();
    }

#foreach( $testMethodName in $testMethodNames )
    @Test
    public void test$stringUtils.capitalize($testMethodName)() throws Exception {
        TestUnitsResults results = instance.$testMethodName();
        assertTrue(results.toString(), results.getNumberOfFailures() == 0);
    }
#end
}
```

5 Examples

To acquire a better understanding of Plugin Name usage, see the following examples:

- [Configuration with all OpenL Maven Plugin Goals](#)
- [Creating a Project with a Working Example of OpenL Maven Plugin Usage](#)

5.1 Configuration with all OpenL Maven Plugin Goals

To configure `rules.xml` generation, set its project ID, project name, and classpath values. An example is as follows:

```
<build>
  [...]
  <plugins>
    [...]
    <plugin>
      <groupId>org.openl.rules</groupId>
      <artifactId>openl-maven-plugin</artifactId>
      <version>${openl.rules.version}</version>
      <configuration>
        <!-- Project name. -->
        <projectName>OpenL Rules Simple Project</projectName>
        <!-- Project's classpath. -->
        <classpath>
          <param>.</param>
        </classpath>
        <!-- OpenL project includes one or more modules. -->
        <generateInterfaces>
          <generateInterface>
            <displayName>Template Rules</displayName>
            <targetClass>template.Wrapper</targetClass>
            <!-- Rules root document. Usually excel file on file system. -->
            <srcFile>src/main/openl/rules/TemplateRules.xls</srcFile>
          </generateInterface>
        </generateInterfaces>
      </configuration>
      <executions>
        <execution>
          <goals>
            <goal>generate</goal>
            <goal>compile</goal>
            <goal>test</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
  [...]
</build>
```

For more information on configuration options, see [openl:generate](#).

5.2 Creating a Project with a Working Example of OpenL Maven Plugin Usage

OpenL Tablets has an archetype which can be used to create a simple OpenL Rules project containing an example of OpenL Maven Plugin usage. Proceed as follows:

1. Execute the following command in the command line:

```
mvn archetype:generate
```

Maven runs an archetype console wizard.

2. Select the `openl-simple-project-archetype` menu item.
3. Follow the wizard instructions to complete project creation.

When the creation is completed, a new Maven-based project appears in the file system. It is an OpenL Tablets Rules project which has one module with simple rules.

4. To compile the project, in the command line, execute the following command from the root of the project folder:

```
mvn install
```

After that, the following objects can be found in the `target` folder:

- A ZIP file with "-deployable" suffix, for importing a project to WebStudio.
For more information, see **[EIS_Suite_OpenL_Tablets_WebStudio_(UG)]**.
- A ZIP file with "-runnable" suffix that can be executed after unpacking.
It demonstrates how OpenL Tablets rules can be invoked from the Java code.
- A JAR file that contains only compiled Java classes.