## **Eclipse Scout: Migration Guide**

#### **Table of Contents**

About This Document	1
Service Releases	1
Updated 3rd party dependencies	1
New ESLint Settings	3
Removal of module @eclipse-scout/testing	3
Automatic JavaScript Chunks	3
Migration if you want to use automatic chunk creation (recommended)	4
Migration if you don't want to use automatic chunks (not recommended)	4
Web Resource Resolver	4
TabBox: New Behavior of LabelVisible	5
SmartColumns: New Behavior of PrepareLookupCall Events	5
New property event.row	5

#### **About This Document**

This document describes all relevant changes **from Eclipse Scout 10.0 to Eclipse Scout 11.0**. If existing code has to be migrated, instructions are provided here.

#### Service Releases

Scout 11.0 will continue to be maintained for a while and new builds may be released from time to time. Beside bugfixes, these service releases may even contain some minor features.

#### **Updated 3rd party dependencies**

All 3rd party build- and runtime-dependencies have been updated to the latest versions. This requires the following modifications:

If you are using the jaxws-maven-plugin, please change the groupId in your pom.xml files from com.helger.maven to com.sun.xml.ws.

In all your web.xml files update the web-app xml document element to:

If you have Jax-Ws web service providers (this is the case if you use the org.eclipse.scout.rt.server.jaxws.provider.annotation.WebServiceEntryPoint annotation), the classpath of the annotation processor must be updated as described for each IDE:

For Eclipse Developers: Update the content of all .factorypath files as follows:

```
<factorypath>
<factorypathentry kind="VARJAR"</pre>
id="M2_REPO/org/eclipse/scout/rt/org.eclipse.scout.jaxws.apt/11.0-
SNAPSHOT/org.eclipse.scout.jaxws.apt-11.0-SNAPSHOT.jar" enabled="true"
runInBatchMode="false"/>
<factorypathentry kind="VARJAR"</pre>
id="M2_REPO/org/glassfish/jaxb/codemodel/2.3.3/codemodel-2.3.3.jar" enabled="true"
runInBatchMode="false"/>
<factorypathentry kind="VARJAR"</pre>
id="M2_REPO/org/eclipse/scout/rt/org.eclipse.scout.rt.platform/11.0-
SNAPSHOT/org.eclipse.scout.rt.platform-11.0-SNAPSHOT.jar" enabled="true"
runInBatchMode="false"/>
<factorypathentry kind="VARJAR"</pre>
id="M2_REPO/org/eclipse/scout/rt/org.eclipse.scout.rt.server.jaxws/11.0-
SNAPSHOT/org.eclipse.scout.rt.server.jaxws-11.0-SNAPSHOT.jar" enabled="true"
runInBatchMode="false"/>
<factorypathentry kind="VARJAR" id="M2_REPO/jakarta/servlet/jakarta.servlet-</pre>
api/4.0.4/jakarta.servlet-api-4.0.4.jar" enabled="true" runInBatchMode="false"/>
<factorypathentry kind="VARJAR" id="M2_REPO/org/slf4j/slf4j-api/1.7.30/slf4j-api-
1.7.30.jar" enabled="true" runInBatchMode="false"/>
<factorypathentry kind="VARJAR" id="M2_REPO/jakarta/jws/jakarta.jws-</pre>
api/2.1.0/jakarta.jws-api-2.1.0.jar" enabled="true" runInBatchMode="false"/>
<factorypathentry kind="VARJAR" id="M2 REPO/jakarta/annotation/jakarta.annotation-
api/1.3.5/jakarta.annotation-api-1.3.5.jar" enabled="true" runInBatchMode="false"/>
<factorypathentry kind="VARJAR" id="M2_REPO/jakarta/xml/ws/jakarta.xml.ws-</pre>
api/2.3.3/jakarta.xml.ws-api-2.3.3.jar" enabled="true" runInBatchMode="false"/>
</factorypath>
```

For IntelliJ IDEA Developers: The annotationProcessing path in the file .idea/compiler.xml is automatically updated when performing a maven reload.

#### **New ESLint Settings**

The eslint rules used by Scout have been adjusted. So if you have a dependency to <code>@eclipse-scout/eslint-config</code> and you update to the latest version, your JavaScript code may report some new warnings.

The following rules have been turned on: no-var, prefer-arrow-callback,prefer-rest-params, prefer-spread.

If you don't like the warnings, you can adjust your eslintre.js and disable the rules. But we suggest migrating your code because it really benefits from using these new ES6 features.

Luckily, eslint provides an automatic fix for the first two. Just run the following command in the root of your project:

```
node_modules/.bin/eslint . --fix
```

You may also need to ignore some files or folders first, just add them to the .eslintignore file.

prefer-rest-params and prefer-spread need a manual migration, unless you choose to disable them.

### Removal of module @eclipse-scout/testing

The code of Node module <code>@eclipse-scout/testing</code> has been moved into <code>@eclipse-scout/core/src/testing</code> because in the past these two modules had cyclic dependencies. Now the testing helper code can be found in the core module (<code>@eclipse-scout/core</code>) within the <code>src/testing</code> folder. The <code>@eclipse-scout/testing</code> module has been deleted.

#### Migration:

- Remove @eclipse-scout/testing from your package.json files
- Change the JavaScript imports from '@eclipse-scout/testing'; to ... from '@eclipse-scout/core/src/testing/index';.

#### **Automatic JavaScript Chunks**

Before Scout 11 JavaScript chunks have been declared explicitly. While you have full control on the output using this explicit definition, it is often not optimal concerning performance and might require modifications when a new module or library is added to the project. Therefore starting with version 11 Scout additionally supports automatic chunk creation for your JavaScript assets.

When using this new feature (which is the default configuration now), chunks are automatically created based on size and code usage (JavaScript imports). Therefore, it is no longer necessary to list every chunk manually in the html file. Instead, Scout automatically inserts the necessary script tags according to the chunks created.

## Migration if you want to use automatic chunk creation (recommended)

Replace all scout:script tags in your html files with a single scout:scripts tag (please note the extra "s" at the end). So instead of:

```
<scout:script src="vendors.js"/>
<scout:script src="jquery.js"/>
<scout:script src="eclipse-scout.js"/>
<scout:script src="yourApp.js"/>
```

replace it with:

```
<scout:scripts entryPoint="yourApp"/>
```

The name to write in the entryPoint attribute is the same as used in the entry section of your webpack.config.js file. Typically you also have entries named login and logout. These are the names to put in the entryPoint attribute within the corresponding html file that should launch this entry point.

Accordingly, the example html file above will include all chunks required by the webpack entry named yourApp.

If you specified custom chunk cache groups in your webpack.config.js (e.g. by defining config.optimization.splitChunks.cacheGroups.yourChunkName =  $\{\cdots\}$ ), remove these chunk definitions.

In your web.xml files remove the old chunk names (/jquery\*.js, /login\*.js, /logout\*.js, /eclipse-scout\*.js) from the filter-exclude values of the servlet filter. Instead, add new exclusions of the form /\*entryPointName\*.js for each entry point that may be accessed without authentication. Typically, these are /\*login\*.js and /\*logout\*.js.

# Migration if you don't want to use automatic chunks (not recommended)

As Scout no longer includes default chunks, you have to define all chunks in your project yourselves.

- To include the old default Scout chunks copy the chunk definitions from the old Scout defaults.
- If you already have custom chunk definitions, you can keep them as they are.

#### Web Resource Resolver

The IWebResourceResolver interface has been extended to return multiple resources instead of one.

For this the methods now return List<WebResourceDescriptor> instead of Optional<WebResourceDescriptor>.

If the FilesystemWebResourceResolver or the ClasspathWebResourceResolver has been replaced in your project, perform the following migration:

- Adjust the return type of getResourceImpl to Stream<URL>.
- Adapt the returned value depending on your implementation:
  - If the resolver observes different locations: return all resources found from all the locations.
  - If the resolver only uses one location: return a stream containing one element or an empty stream.

You may use the inherited methods resolveUrls and toUrl if your resolver replaces the FilesystemWebResourceResolver. These methods may be handy to search for a relative path in one or multiple root directories.

#### **TabBox: New Behavior of LabelVisible**

As already mentioned in the release notes, it is now possible to hide the tab box header with the property labelVisible. Since this had no effect in previous Scout versions you should check whether you accidentally set the property to false. The default of the property is true, so if the property was not set at all or set to true it will be fine.

# SmartColumns: New Behavior of PrepareLookupCall Events

Upto version 10.0 no prepareLookupCall event has been triggered when doing key lookup calls for cells inside SmartColumns. These key lookup calls are for example relevant for initally loading the values of the cells inside the column. Starting from version 11.0 a key lookup call always triggers a prepareLookupCall events.

#### New property event.row

The property row was given to the prepareLookupCall event in SmartColumns. There are a few things to consider:

- The property selectedRow from Table must not be used anymore when a reference to the selected row is needed. Instead, event.row should be used to find the selected row.
- event.row can be null or undefined. The latter is for example the case when initially loading the values from the cells inside the column.
- Batch lookup calls have no property event.row when triggering the prepareLookupCall event. Hence, if your prepareLookupCall event depends on the selected row during key lookups, you should set the property batch: false inside the corresponding lookupCall of your ConfigFormModel.js file.



