Eclipse Scout Migration Guide

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Version 7.0

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API Changes (Java)

New scout modules for Jackson-based REST services

The following new Scout modules have been added to support REST services with Jackson as marshaller:

```
org.eclipse.scout.rt.restorg.eclipse.scout.rt.rest.testorg.eclipse.scout.rt.jacksonorg.eclipse.scout.rt.jackson.test
```

In order to use REST services based on the JAX-RS Jersey implementation, the following section must be added to the project web.xml:

The RestApplication class searches for all implementations of IRestResource and exposes them as REST services.

Removed properties "enabledProcessing" on IButton and IAction

When a user performs two consecutive clicks on a button or a menu within a very short period of time, the action is executed twice. In some cases, this is an unwanted behavior. A new property "preventDoubleClick" was added to IButton and IMenu to disable it (see release notes).

In older Scout versions, two flags (m_enabledProcessing and m_enabledProcessingAction, respectively) were use to accomplish a similar objective. Whenever the click/action handler was started, the flag was set to false, and set back to true at the end of the execution. A second call to the method had no effect. However, this logic no longer works since the introduction of the HTML UI. The new UI strictly allows *only one* UI event to work on the client model simultaneously (subsequent click events are hold back by the *UiSession* lock). Consequently, the "enabledProcessing" flag is never

false, and no clicks are prevented.

Because this construct no longer works, the corresponding properties and methods were removed, namely:

- AbstractButton: m_enabledProcessing
- IButton/AbstractButton: isEnabledProcessing()
- IButton/AbstractButton: setEnabledProcessing()
- IButton/AbstractButton: disarm()
- ButtonEvent: TYPE DISARM
- AbstractAction: m_enabledProcessingAction
- IAction/AbstractAction: isEnabledProcessingAction

Migration: Delete any code that references any of the removed methods. There is not replacement, as the whole concept became disfunctional with the HTML UI. To prevent accidental double clicks, use the new getConfiguredPreventDefault() property. If for very rare and special cases such a flag is required, it has to be implemented manually by overriding AbstractButton.doClick() and AbstractAction.doAction().

Added HTTP abstraction layer Google HTTP Client.

If your application previously used a custom (not provided by Scout) implementation of the org.eclipse.scout.rt.shared.servicetunnel.http.HttpServiceTunnel class a migration might be necessary. For the service tunnel and a few other HTTP usages a new HTTP abstraction layer (Google HTTP Client 1.22) was introduced to support different low-level HTTP libraries (previously just the java.net.HttpURLConnection was used). The new default low-level HTTP library is the Apache HTTP Client 4.5.3, more details are available in the release notes. As the java.net connections are not used anymore by default the MultiSessionCookieStore (for java.net connections) is not installed by default (could be installed manually).

HttpServiceTunnel`class For the the method `URLConnection createURLConnection(ServiceTunnelRequest call, byte[] callData) has been replaced by HttpResponse executeRequest(ServiceTunnelRequest call, byte[] callData), also several methods (addCustomHeaders, addSignatureHeader, addCorrelationId, createAuthToken and interceptHttpResponse) signatures have changed their URLConnection parameter to either a HttpRequest or HttpResponse parameter. The same migration applies for subclasses of the org.eclipse.scout.rt.server.commons.servlet.HttpProxy class.

IGroupBox: changed behavior of getGridColumnCount

The function <code>getGridColumnCount()</code> returned the calculated column count of the grid. This has been changed so that it returns the configured one which is not necessarily the same.

Example: the default of the property gridColumnCount is -1 which will typically result in 2 columns.

So in case you used this method, you should consider calling getFieldGrid().getGridColumnCount()
instead.

ScoutTexts

Removed support for session scope specific ScoutTexts instances because support of scoped services was removed in Scout without OSGi (version >= 5.0).

Changes: * ScoutTexts is now an application-scoped bean * ScoutTexts.CURRENT thread local removed without replacement (use BEANS.get(ScoutTexts.class) instead)

Deprecations (methods will be removed in P-release): * ScoutTexts.get → TEXTS.get * ScoutTexts.getInstance() → BEANS.get(ScoutTexts.class) * ISession.getTexts() → BEANS.get(ScoutTexts.class) * AbstractSqlService.getConfiguredNlsProvider() → method is not used anymore (returns null) * AbstractSqlService.getNlsProvider() → method is not used anymore (returns null)

API Changes (JavaScript)

render()

The parameter \$parent has been removed from the _render method because this.\$parent is available for every widget. There is no need to have a parameter \$parent which points to the same variable. Use this.\$parent instead.

Also \$parent is now optional when calling widget.render(). The \$parent may be resolved using this.parent. No need to always write widget.render(this.\$container) anymore, instead just write widget.render() if the \$container of the parent should be used as \$parent.

Promises

With jQuery 3 the promise API is now Promises/A+ compliant. This means you may need to adjust your code if you use promises.

We noticed the following effects:

- If a rejection is catched using a fail handler, the fail handler has to return a rejected promise as well, otherwise the next success handler would be called instead of the next fail handler.
- Every callback is now executed asynchronously. This is especially relevant for the tests.
- Catch has been added → replace fail(null, func) for better readability.

See also https://jquery.com/upgrade-guide/3.0/ for details.

Removed addClassSVG, removeClassSVG, attrSVG, removeAttrSVG

These functions are now supported by jQuery directly. Just use addClass, removeClass, attr and removeAttr.

Property Change Event

The property change event has been simplified.

The event had 3 properties:

- newProperties
- oldProperties
- changedProperties

This was added to be able to react to multiple property change events at once. Since 6.1, bulk property changes don't exist anymore, so there is no need for these properties anymore.

Now, with 7.0, the property change event has the following properties:

- propertyName
- oldValue
- newValue

This makes handling the event easier. Check your propertyChange event handlers and adjust them accordingly.

Logical Grid Validation

Automatic Grid Data Validation has been introduced. This means there is no need to manually create a Logical Grid (e.g. VerticalSmartGroupBoxBodyGrid or HorizontalGroupBoxBodyGrid and validate it anymore, this will be done by the LogicalGridLayout itself. Also, check your JSON files, remove any explicit x, y grid definitions because they will be calculated by the LogicalGrid. Make sure to always use the property gridDataHints instead of gridData.

Event Naming

The naming of the events has been harmonized to conform with the event naming guide. This is only relevant, if you attached listeners using JavaScript or if you do some kind of load testing using the events in the requests.

The following changes have been made:

- · Rename doAction to action
- · Rename linkPageWithRow to pageRowLink
- · Rename initPage to pageInit
- Rename exportToClipboard to clipboardExport
- Rename parseerror to parseError
- Rename selectionChanged to selectionChange
- Rename callAction to action
- · Removed insertText

- Rename popupopen to popupOpen
- · Rename locationChanged to locationChange
- · Rename sessionready to sessionReady
- Rename desktopcreated to desktopReady
- Rename positionChanged to positionChange
- · Rename scrollstart to scrollStart
- · Rename scrollend to scrollEnd
- Rename clicked to click
- · Rename modelChanged to modelChange
- Rename selectionChanged to selectionChange
- · Rename viewRangeChanged to viewRangeChange
- · Rename formActivated to formActivate
- Rename historyEntryActivated to historyEntryActivate
- · Rename viewAdded to viewAdd
- · Rename viewRemoved to viewRemove
- Rename viewActivated to viewActivate
- Rename viewDeactivated to viewDeactivate
- Rename tabClicked to click
- Rename tabSelected to tabSelect
- Rename nodeClicked to nodeClick
- Rename rowClicked to rowClick
- · Rename rowsSorted to sort
- · Remove sortRows
- Rename rowsGrouped to group
- Remove groupRows
- Rename exportToClipboard to clipboardExport
- Rename rowsFiltered to filter
- · Rename addFilter to filterAdded
- · Rename removeFilter to filterRemoved
- · Rename filterResetted to filterReset
- · Remove groupingChanged

Other Changes

Maven provided dependencies

In Maven dependencies with the scope provided are not transitive. This makes sense if a dependency is set to provided depending on the environment. Any artifacts that are not intended to be used in a certain environment should not have the scope provided and are therefore now transitive. We removed any current dependency <code>javax.servlet:javax.servlet-api</code> except for the one in the artifact <code>org.eclipse.scout.rt.server.commons</code>.

To migrate your project, remove any dependency to <code>javax.servlet:javax.servlet-api</code>, <code>javax.xml.ws:jaxws-api</code> or <code>javax.ws.rs:javax.ws.rs-api</code>. Then add to all artifacts with packaging type war the dependency to <code>javax.servlet:javax.servlet-api</code> with scope provided. Depending on the container, you may want also to add the depdendency <code>javax.xml.ws:jaxws-api</code> with scope provided to the war artifact.

```
ct>
 <artifactId>myproject.server.war</artifactId>
 <packaging>war</packaging>
 <dependencies>
   <dependency>
     <groupId>myproject</groupId>
     <artifactId>myproject.server</artifactId>
   </dependency>
   <!-- provided by container -->
   <dependency>
     <groupId>javax.servlet
     <artifactId>javax.servlet-api</artifactId>
     <scope>provided</scope>
   </dependency>
 </dependencies>
</project>
```



Do you want to improve this document? Have a look at the sources on GitHub.