## **Eclipse Scout** Migration Guide

Scout Team

Version 7.1

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#### **About This Document**

This document describes all relevant changes **from Eclipse Scout 7.0 to Eclipse Scout 7.1**. If existing code has to be migrated, instructions are provided here.



If you are upgrading from version 6.1, please also read the migration guide for the 7.0 (*Oxygen preview*) release:

https://eclipsescout.github.io/7.0/migration-guide.html

AbstractFormField

#### **Service Release Migration**

The following changes were made after the initial 7.1 release (Eclipse Photon release). Additionally follow these instructions when updating to a *service release*.

#### Photon.1 (7.1.100) Release expected on September, 2018

**Attention:** The here described functionality has not yet been released and is part of an upcoming release.

### **API Changes (Java)**

#### CalendarComponent

Removed deprecated method Date[] getCoveredDays() on org.eclipse.scout.rt.client.ui.basic.calendar.CalendarComponent. Migration: Use Range<Date> getCoveredDaysRange() instead with start and end date.

#### Java 8 required

The required Java Runtime Environment (JRE) to run an Eclipse Scout application has changed: Starting with Eclipse Scout 7.1, a Java 8 runtime is required.

Please note that the Scout 7.1 Runtime does not support Java 9 yet. The Java 9 support is planned for Eclipse *Photon* release (Scout 8.0) in summer 2018.

To reflect this change some existing Scout classes have been migrated to the newly available Java 8 classes:

```
org.eclipse.scout.rt.platform.filter.IFilter replaced with java.util.function.Predicate.
```

org.eclipse.scout.rt.platform.filter.AlwaysFilter replaced with java.util.function.Predicate e.g. a → true.

org.eclipse.scout.rt.platform.filter.NotFilter replaced with

java.util.function.Predicate#negate.

org.eclipse.scout.rt.platform.filter.OrFilter replaced with java.util.function.Predicate#or.

org.eclipse.scout.rt.platform.util.concurrent.IConsumer java.util.function.Consumer.	replaced	with
org.eclipse.scout.rt.platform.util.concurrent.IFunction java.util.function.Function.	replaced	with
org.eclipse.scout.rt.platform.util.concurrent.IBiConsumer java.util.function.BiConsumer.	replaced	with
org.eclipse.scout.rt.platform.util.concurrent.IBiFunction java.util.function.BiFunction.	replaced	with

# Removed constants/methods from ClientUIPreferences

Since the new Html UI was introduced with Scout 5.2 these constants and methods had no effect on the UI anymore. Since Scout is now a browser application we don't have any control over the application window anymore. The form-bounds are stored in the local browser storage thus they're not required in the Java model anymore. Removed constants/methods:

- APPLICATION\_WINDOW\_MAXIMIZED
- APPLICATION\_WINDOW\_BOUNDS
- FORM BOUNDS
- getFormBounds()
- setFormBounds(IForm form, Rectangle bounds)
- getApplicationWindowMaximized()
- setApplicationWindowPreferences(BoundsSpec r, boolean maximized)

# Removed property focusable from IFormField, AbstractFormField

Since the new Html UI was introduced with Scout 5.2 this property had no effect on the UI anymore. Instead the UI uses sensible defaults for each field type. For instance: a LabelField is never focusable, a normal StringField is always focusable, as long as it is enabled. Since the property was rarely used, we removed all methods from the interface/class FormField. Removed methods/properties:

- boolean IFormField#isFocusable()
- void IFormField#setFocusable(boolean f)
- boolean IFormField#PROP\_FOCUSABLE

- boolean AbstractFormField#getConfiguredFocusable()
- class AbstractNonFocusableButton
- class AbstractNonFocusableRadioButton

Since there is no replacement for the focusable property, remove all code that uses one of the methods/properties listed above.

#### ISmartField2 replaced old ISmartField

In Scout 7.0 the new SmartField implementation used the package and name smartfield2. SmartField2. With Scout 7.1 the new SmartField replaced the old SmartField completely, and thus was moved to and renamed to smartfield. SmartField. If you have already used the new SmartField in Scout 7.0 you must move / rename all references to these classes.

# IContentAssistField classes and interfaces removed

The base class and interfaces of the old SmartField implementation was IContentAssistField. With the new SmartField implementation this interfaces and all classes containing the word "ContentAssist" in their name, have been either removed or renamed to "SmartField". If your code references one of these classes you should simply try to rename all references. Since the API of the new SmartField is almost the same as the old, this should work and should cause no or few changes in your code. The following classes have been removed without replacement:

- $\bullet \ org. eclipse. scout.rt. client.ui. form. fields. smart field. Abstract Mixed Smart Field$
- $\bullet \ org. eclipse. scout.rt. client.ui. form. fields. smart field. Content Assist Field Event$
- org.eclipse.scout.rt.client.ui.form.fields.smartfield.ContentAssistFieldListener
- org.eclipse.scout.rt.client.ui.form.fields.smartfield.ContentAssistFieldTable
- org.eclipse.scout.rt.client.ui.form.fields.smartfield.IMixedSmartField

Since the new SmartImplementation does not have a proposal chooser model anymore these classes have also been removed. If you must have a special implementation of a proposal chooser, you must implement a proposal chooser in JavaScript (see: ProposalChooser.js), which renders the data / lookup-rows it receives from the server-side SmartField:

- org.eclipse.scout.rt.client.ui.form.fields.smartfield.AbstractProposalChooser
- org.eclipse.scout.rt.client.ui.form.fields.smartfield.IProposalChooser
- org.eclipse.scout.rt.client.ui.form.fields.smartfield.IProposalChooserProvider
- org.eclipse.scout.rt.client.ui.form.fields.smartfield.TableProposalChooser
- org.eclipse.scout.rt.client.ui.form.fields.smartfield.TreeProposalChooser

### GroupBox: moved minWidthInPixel

The property minWidthInPixel has been moved to the object LogicalGridLayoutConfig. Instead of using getConfiguredMinWidthInPixel you should now set the property as follows:

```
@Override
protected LogicalGridLayoutConfig getConfiguredBodyLayoutConfig() {
  return super.getConfiguredBodyLayoutConfig()
      .withMinWidth(400);
}
```

### Adjusted Behavior of Widget Initialization

The goal was to harmonize all the init methods (initField, initTile, initForm etc.) and to make sure, init() is only executed once. This is important for dynamic widgets like accordion or tiles. These widgets initialize the newly added children by themselves so that the caller does not need to take care of it. For these cases it is important that init() is not called multiple times.

But: there may be cases which require <code>init()</code> to be called multiple times, like reseting a search form. For such cases, <code>reinit()</code> has to be used from now on. Also, after the widget is disposed, <code>init()</code> may be called again. So remember: <code>execInit</code> may be called more than once in some circumstances. This is existing behavior!

We also renamed the initConfig guard of IFormField from isInitialized to isInitDone to make clear what initialization has been done. It has furthermore been moved to AbstractWidget so that individual widgets don't have to care about it and to use the same pattern as for postInitConfig, init and dispose.

This means the following for your code:

If you used one of the deprecated methods (initField, initAction etc.), replace them with one of the following methods: init, reinit or initInternal. Use init if you created a field and need to initialize it. Use reinit if you explicitly want to reinitialize an already initialized field. Use initInternal if your custom widget overrides initField.

### GzipServletFilter

Replaced get\_pattern and post\_pattern with content\_types. If you set these init parameters in your web.xml, replace or remove them accordingly.

## HttpCacheControl

The parameter pathInfo has been removed from the method HttpCacheControl.checkAndSetCacheHeaders since it has no effect anymore.

#### **Config Properties**

#### **Descriptions**

Config properties based on org.eclipse.scout.rt.platform.config.IConfigProperty include a description text. This description is stored in the new description() method.

All properties must now implement this new method and return a description text of that property. The class org.eclipse.scout.rt.platform.config.ConfigDescriptionExporter can be used to export these descriptions. By default an AsciiDoctor exporter is included.

#### **Default value**

Config properties based on org.eclipse.scout.rt.platform.config.IConfigProperty include a default value. The default value is stored in the getDefaultValue() method.

The method was moved from org.eclipse.scout.rt.platform.config.AbstractConfigProperty<DATA\_TYPE, RAW\_TYPE> to the interface. Therefore the visibility has changed from protected to public.

#### **Validation**

The concreate implementation org.eclipse.scout.rt.platform.config.ConfigPropertyValidator which validates the configuration of config.properties files will also check if a configured value matches the default value. In case it does a info message (warn in development mode) will be logged but the platform will still start.

To minimize configuration files such entries should be removed from config.properties files.

#### **Renamed Config Property Keys**

The following config property keys have been renamed (the old keys are no longer valid and must be renamed accordingly):

Table 1. Config Property Renames

Old Key	New Key
scout.auth.anonymous.enabled	scout.auth.anonymousEnabled
scout.auth.cookie.enabled	scout.auth.cookieEnabled
scout.auth.cookie.maxAge	scout.auth.cookieMaxAge
scout.auth.cookie.name	scout.auth.cookieName
scout.auth.cookie.session.validate.secure	scout.auth.cookieSessionValidateSecure
scout.auth.credentials.plaintext	scout.auth.credentialsPlaintext
scout.auth.token.ttl	scout.auth.tokenTtl
scout.server.url	scout.backendUrl

Old Key	New Key
session.jobCompletionDelayOnSessionShutdown	<pre>scout.client.jobCompletionDelayOnSessionShutdo wn</pre>
org.eclipse.scout.memory	scout.client.memoryPolicy
notification.user.authenticator	scout.client.notificationSubject
org.eclipse.scout.testing.client.ClientSession ProviderWithCache#expiration	scout.client.testingSessionTtl
user.area	scout.client.userArea
org.eclipse.scout.rt.server.clientnotification .ClientNotificationService#maxMessages	scout.clientnotification.chunkSize
org.eclipse.scout.rt.server.clientnotification .ClientNotificationService#blockingTimeout	<pre>scout.clientnotification.maxNotificationBlocki ngTimeOut</pre>
org.eclipse.scout.rt.server.clientnotification .ClientNotificationNodeQueue#capacity	scout.clientnotification.nodeQueueCapacity
org.eclipse.scout.rt.server.clientnotification .ClientNotificationRegistry#m_queueExpireTime	<pre>scout.clientnotification.notificationQueueExpi reTime</pre>
org.eclipse.scout.rt.server.services.common.cl ustersync.ClusterSynchronizationService#user	scout.clustersync.user
scout.beans.createTunnelToServerBeans	scout.createTunnelToServerBeans
scout.csp.enabled	scout.cspEnabled
scout.csp.directive	scout.cspDirective
scout.dev.mode	scout.devMode
scout.external.base.url	scout.externalBaseUrl
scout.healthcheck.remoteUrls	scout.healthCheckRemoteUrls
scout.http.apache_connection_time_to_live	scout.http.connectionTtl
scout.http.ignore_proxy	scout.http.ignoreProxyPatterns
scout.http.apache_keep_alive	scout.http.keepAlive
scout.http.apache_max_connections_per_route	scout.http.maxConnectionsPerRoute
scout.http.apache_max_connections_total	scout.http.maxConnectionsTotal
scout.http.proxy	scout.http.proxyPatterns
scout.http.apache_retry_post	scout.http.retryHost
scout.http.transport_factory	scout.http.transportFactory
org.eclipse.scout.rt.server.services.common.imap.AbstractIMAPService#host	scout.imap.host
org.eclipse.scout.rt.server.services.common.imap.AbstractIMAPService#mailbox	scout.imap.mailbox
org.eclipse.scout.rt.server.services.common.imap.AbstractIMAPService#password	scout.imap.password
org.eclipse.scout.rt.server.services.common.imap.AbstractIMAPService#port	scout.imap.port
org.eclipse.scout.rt.server.services.common.imap.AbstractIMAPService#sslProtocols	scout.imap.sslProtocols
org.eclipse.scout.rt.server.services.common.imap.AbstractIMAPService#userName	scout.imap.username
jandex.rebuild	scout.jandex.rebuild
jaxws.consumer.connectTimeout	scout.jaxws.consumer.connectTimeout
jaxws.consumer.portCache.corePoolSize	scout.jaxws.consumer.portCache.corePoolSize

Old Key	New Key
jaxws.consumer.portCache.enabled	scout.jaxws.consumer.portCache.enabled
<pre>jaxws.consumer.portCache.ttl</pre>	scout.jaxws.consumer.portCache.ttl
jaxws.consumer.portPool.enabled	scout.jaxws.consumer.portPoolEnabled
jaxws.consumer.readTimeout	scout.jaxws.consumer.readTimeout
jaxws.implementor	scout.jaxws.implementor
jaxws.loghandler.debug	scout.jaxws.loghandlerDebug
jaxws.provider.authentication.basic.realm	scout.jaxws.provider.authentication.basicRealm
jaxws.provider.user.authenticator	scout.jaxws.provider.user.authenticator
jaxws.provider.user.handler	scout.jaxws.provider.user.handler
scout.mom.requestreply.cancellation.topic	<pre>scout.mom.requestreply.cancellationTopic</pre>
scout.node.id	scout.nodeId
scout.permission.level.check.cache.ttl	scout.permissionLevelCacheTtl
org.eclipse.scout.rt.server.services.common.file.RemoteFileService#rootPath	scout.remotefileRootPath
org.eclipse.scout.rt.server.session.ServerSessionProviderWithCache#expiration	scout.serverSessionTtl
org.eclipse.scout.serviceTunnel.compress	scout.servicetunnel.compress
<pre>org.eclipse.scout.rt.servicetunnel.apache_max_ connections_per_route</pre>	scout.servicetunnel.maxConnectionsPerRoute
<pre>org.eclipse.scout.rt.servicetunnel.apache_max_ connections_total</pre>	scout.servicetunnel.maxConnectionsTotal
org.eclipse.scout.rt.servicetunnel.targetUrl	scout.servicetunnel.targetUrl
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#debugReceiverEmail	scout.smtp.debugReceiverEmail
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#defaultFromEmail	scout.smtp.defaultFromEmail
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#host	scout.smtp.host
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#password	scout.smtp.password
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#port	scout.smtp.port
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#sslProtocols	scout.smtp.sslProtocols
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#subjectPrefix	scout.smtp.subjectPrefix
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#useAuthentication	scout.smtp.useAuth
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#username	scout.smtp.username
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#useSmtps	scout.smtp.useSsl
<pre>org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#directJdbcConnection</pre>	scout.sql.directJdbcConnection
<pre>org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcDriverName</pre>	scout.sql.jdbc.driverName
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcDriverUnload	scout.sql.jdbc.driverUnload

Old Key	New Key
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcMappingName	scout.sql.jdbc.mappingName
<pre>org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcPoolConnectionBusyTi meout</pre>	scout.sql.jdbc.pool.connectionBusyTimeout
<pre>org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcPoolConnectionLifeti me</pre>	scout.sql.jdbc.pool.connectionIdleTimeout
<pre>org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcPoolSize</pre>	scout.sql.jdbc.pool.size
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcProperties	scout.sql.jdbc.properties
<pre>org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcStatementCacheSize</pre>	scout.sql.jdbc.statementCacheSize
<pre>org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jndiInitialContextFactor y</pre>	scout.sql.jndi.initialContextFactory
<pre>org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jndiName</pre>	scout.sql.jndi.name
<pre>org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jndiProviderUrl</pre>	scout.sql.jndi.providerUrl
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jndiUrlPkgPrefixes	scout.sql.jndi.urlPkgPrefixes
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#password	scout.sql.password
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#transactionMemberId	scout.sql.transactionMemberId
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#username	scout.sql.username
scout.text.providers.show.keys	scout.texts.showKeys
scout.background.polling.interval	scout.ui.backgroundPollingMaxWaitTime
scout.max.user.idle.time	scout.ui.maxUserIdleTime
scout.ui.model.jobs.await.timeout	scout.ui.modelJobTimeout
scout.sessionstore.housekeepingDelay	scout.ui.sessionstore.housekeepingDelay
<pre>scout.sessionstore.housekeepingMaxWaitForShutd own</pre>	scout.ui.sessionstore.housekeepingMaxWaitForSh utdown
scout.sessionStore.maxWaitForAllShutdown	scout.ui.sessionStore.maxWaitForAllShutdown
<pre>scout.sessionStore.valueUnboundMaxWaitForWrite Lock</pre>	<pre>scout.ui.sessionStore.valueUnboundMaxWaitForWr iteLock</pre>

## **Default Values Validation**

## **New Config Property scout.cspDirective**

The new property scout.cspDirective makes subclassing and replacing the ContentSecurityPolicy class obsolete as you can configure all CSP settings with this property now. An example from the Scout Widgets application:

```
@Replace
public class WidgetsContentSecurityPolicy extends ContentSecurityPolicy {

   @Override
   protected void initDirectives() {
       super.initDirectives();
      // Demo app uses external images in html field and custom widgets -> allow it withImgSrc("*");
   }
}
```

This class was deleted and replaced by a config property in config.properties:

```
# CSP - Demo app uses external images in html field and custom widgets -> allow it
scout.cspDirective[img-src]=*
```

#### **API Changes (JavaScript)**

#### Rename of Less Variables

If you created a custom theme, you might have to adjust some less variables.

- Splitted @group-title-padding-y into @group-title-padding-top and @group-title-padding-bottom
- Splitted @tree-node-padding into @tree-node-padding-y, @tree-node-padding-left and @tree-node-padding-right
- Renamed @tabbox-padding-x to @tab-item-padding-x
- Renamed @tabbox-focus-arrow-width to @tab-item-focus-arrow-width
- Renamed @tabbox-border-width to @tab-area-border-width
- Renamed @compact-outline-node-padding-v to @compact-outline-node-padding-y
- Renamed @box-margin-v to @box-margin-y
- Renamed @outline-breadcrumb-node-padding-v to @outline-breadcrumb-node-padding-y
- Renamed @tile-padding-h to @tile-field-padding-x
- Renamed @tile-padding-v to @tile-field-padding-y
- Renamed Oplanner-header-buttons to Oplanner-header-button-height
- Renamed @calendar-header-buttons to @calendar-header-button-height

### Other Changes

N/A



