Eclipse Scout: Migration Guide

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This document is referring to a past Scout release. Please click here for the recent version.

Looking for something else? Visit https://eclipsescout.github.io for all Scout related documentation.

About This Document

This document describes all relevant changes **from Eclipse Scout 7.0 to Eclipse Scout 8.0**. If existing code has to be migrated, instructions are provided here.

Service Release Migration

After the final Eclipse Photon release, there are no more Eclipse *service releases* (see the Simultaneous Release Cycle FAQ for details). Scout 8.0 will continue to be maintained for a while and a new build may be released from time to time. Beside bugfixes, these releases may even contain some minor features.

The following changes were made after the initial 8.0 release.

Simrel 2018-09 — Released on September 19, 2018

The initial release of this version was **8.0.0.021** (Maven: 8.0.0.021_Simrel_2018_09)

• SmartField: changed behavior for applying styles from a lookup-row on the field (since 8.0.0.021)

- Moved Mail-Related Classes to New Module to org.eclipse.scout.rt.mail (since 8.0.0.021)
- Call: Skip Retries by Default (since 8.0.0.021)
- ErrorHandler: Extended Support for Arbitrary Errors (since 8.0.0.021)
- SmartField / DateField: Renamed touch to touchMode (since 8.0.0.021)
- Deprecated Methods on DefaultAuthToken and Introduced DefaultAuthTokenSigner and DefaultAuthTokenVerifier (since 8.0.0.021)

Simrel 2018-12 — Released on December 19, 2018

The initial release of this version was **8.0.0.031** (Maven: 8.0.0.031_Simrel_2018_12)

Upcoming — No Planned Release Date

The following changes were made after the latest official release build. No release date has been fixed yet.



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

- StyleHelper Moved to Platform (since 8.0.0.034)
- Implementation of AbstractEntityRestClientExceptionTransformer sub-classes changed (since 8.0.0.037)
- New RemoteSystemUnavailableException (since 8.0.0.033); updated (since 8.0.0.037)

API Changes (Java)

Java 8 Required

The required Java Runtime Environment (JRE) to run an Eclipse Scout application has changed: Starting with Eclipse Scout 8.0, a **Java 8 runtime is required**.



The Scout 8.0 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:

Old Scout class:	Replaced with Java 8 equivalent:
org.eclipse.scout.rt.platform.filter.IFilter	java.util.function.Predicate
org.eclipse.scout.rt.platform.filter.AlwaysFilter	java.util.function.Predicate e.g. a → true
org.eclipse.scout.rt.platform.filter.NotFilter	java.util.function.Predicate#negate
org.eclipse.scout.rt.platform.filter.OrFilter	java.util.function.Predicate#or

Old Scout class:	Replaced with Java 8 equivalent:
org.eclipse.scout.rt.platform.util.concurrent. IConsumer	java.util.function.Consumer
org.eclipse.scout.rt.platform.util.concurrent. IFunction	java.util.function.Function
org.eclipse.scout.rt.platform.util.concurrent. IBiConsumer	java.util.function.BiConsumer
org.eclipse.scout.rt.platform.util.concurrent. IBiFunction	java.util.function.BiFunction
org.eclipse.scout.rt.client.ui.action.IActionFilter	java.util.function.Predicate <iaction></iaction>

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.

AbstractCacheValueResolver

Abstract implementation was replaced by default method in interface ICacheValueResolver.

Migration: Implement interface ICacheValueResolver directly instead of extending AbstractCacheValueResolver.

Deprecation of SequenceBox EqualColumnWidths

The methods SequenceBox#getConfiguredEqualColumnWidths(), SequenceBox#isEqualColumnWidths() and SequenceBox#setEqualColumnWidths() have been deprecated. As this property was not used by Scout since several releases it can be deleted.

You can search for these method names in your code to find any usages. Alternatively your IDE may mark the usage of deprecated methods (depends on settings).

Removed Constants/Methods From ClientUIPreferences

Since the new Html UI was introduced with Scout 5.2 some constants and methods in ClientUIPreferences 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.

The following constants/methods were dropped:

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 the property focusable 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 the related code:

- Method boolean IFormField#isFocusable()
- Method void IFormField#setFocusable(boolean f)
- Field boolean IFormField#PROP_FOCUSABLE
- Method boolean AbstractFormField#getConfiguredFocusable()
- Class AbstractNonFocusableButton
- Class AbstractNonFocusableRadioButton

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

Removal of Old "SmartField", Renaming of "SmartField" Back to "SmartField"

In Scout 7.0 a new smart field implementation named *SmartField2* was created. The old implementation was still available, but its use was discouraged. With Scout 8.0 the old *SmartField* implementation was finally dropped. The new implementation *SmartField2* was renamed back to *SmartField*.

The following table lists the different names used in the past Scout releases. (The naming applies to all associated files, such as interfaces, abstract field classes, Java packages and JavaScript and LESS files.)

Scout <= 6.1	Scout 7.0	Scout >= 8.0
SmartField (old implementation)	SmartField (old implementation)	-
-	,	SmartField (new implementation)

Migration:

- If you have already used the new *SmartField2* in Scout 7.0 you must move / rename all references back to the (new) *SmartField*.
- If you are migrating from an older Scout version (<= 6.1), you *might* have to adjust your code to the new implementation. See the corresponding 7.0 migration guide.

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:

- org.eclipse.scout.rt.client.ui.form.fields.smartfield.AbstractMixedSmartField
- org.eclipse.scout.rt.client.ui.form.fields.smartfield.ContentAssistFieldEvent
- 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 SmartField implementation 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 and lookup rows it receives from the server-side SmartField. The following classes have been removed without replacement:

- 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 LogicalGridLayoutConfig.

Migration: 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 init and dispose.

These new methods (init(), dispose() and reinit()) handle the whole widget tree including all child widgets recursively. Child items that need initialization and are NO widgets must be initialized explicitly as it is already now. All children that are widgets must NOT be initialized because this is done automatically by the AbstractWidget implementation. To modify that behavior use the methods initChildren() or disposeChildren() (e.g. if you want to exclude a child widget automatically getting initialized). This also means that ActionUtility.disposeActions(), ActionUtility.initActions(), FormUtility.postInitConfig(), FormUtility.initFormFields() and FormUtility.disposeFormFields() have been removed because the corresponding method can be called directly on the instance instead. Use widget.init() or widget.dispose() instead of these utility functions.

Please note that the phase postInit has been removed for the items that supported it. The corresponding code can be moved to the end of the initConfigInternal() method instead.

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 init and dispose.

Migration:

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 init parameters 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 argument pathInfo has been removed from the method HttpCacheControl.checkAndSetCacheHeaders since it has no effect anymore.

HttpProxy

HTTP Proxy doesn't set cache control no-chache header anymore.

Replacement for IActionVisitor, ITreeVisitor, IFormFieldVisitor

A new tree visitor engine has been added to the org.eclipse.scout.rt.platform.util.visitor package. It contains classes to depth-first or breadth-first traverse any tree data structures. Use the class org.eclipse.scout.rt.platform.util.visitor.TreeTraversals as entry point.

This new visitors can be used on any widget and tree node. It replaces the former IActionVisitor, ITreeVisitor and IFormFieldVisitor. The org.eclipse.scout.rt.client.ui.IWidget interface also declares various overloads accepting java.util.function.Consumer, java.util.function.Function and the new org.eclipse.scout.rt.platform.util.visitor.IDepthFirstTreeVisitor and org.eclipse.scout.rt.platform.util.visitor.IBreadthFirstTreeVisitor. Depending on how much control and data you need for your visitor the matching type can be used.

Until now only pre-order visitors have been available on these items. Therefore the migration to the new visitor takes the following steps:

- visitFields or acceptVisitor method on IFormField or IAction have been replaced with the visit method on IWidget.
- The new visitor allows to control how visiting should be continued in a more detailed level. Instead returning true or false to indicate if visiting should continue all options as defined in org.eclipse.scout.rt.platform.util.visitor.TreeVisitResult are available. A return value of TreeVisitResult.CONTINUE corresponds to true and a return value of false can be migrated to TreeVisitResult.TERMINATE.
- If using the IDepthFirstTreeVisitor the method preVisit must be overridden to have the same functionality as before. Consider also using the DepthFirstTreeVisitorAdapter instead of directly using the interface.
- If the visitor should only be called for a certain type of input element and just continue visiting for all others the overloads defining a type filter can be used for widgets. Using this instanceof

checks and type casts are often not necessary anymore.

- There is a org.eclipse.scout.rt.platform.util.visitor.CollectingVisitor class to convert the items of a tree to a list.
- IFormField.visitParents takes a java.util.function.Predicate<IFormField> instead of an IFormFieldVisitor.

New Convenience Methods on IFormField

There are new methods for setting mandatory state (setMandatory), status visibility (setStatusVisible), field style (setFieldStyle) and disabled style (setDisabledStyle) that allow to specify if child form fields should be changed as well.

So if you have overridden one of these methods in your code, please override the new one instead. The method now takes an additional boolean flag to indicate if children should be processed as well.

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.publickey	scout.auth.publicKey
scout.auth.privatekey	scout.auth.privateKey
scout.auth.token.ttl	scout.auth.tokenTtl
scout.server.url	scout.backendUrl
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
<pre>org.eclipse.scout.rt.server.clientnotification .ClientNotificationRegistry#m_queueExpireTime</pre>	<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.maxConnectionsIotal scout.http.apache_max_connections_total scout.http.maxConnectionsIotal scout.http.apache_retry.post scout.http.transportFactory org.eclipse.scout.rt.server.services.common.im scout.http.transportFactory org.eclipse.scout.rt.server.services.common.im scout.imap.nost ap.AbstractIMAPService#mailbox scout.imap.mailbox org.eclipse.scout.rt.server.services.common.im scout.imap.possword org.eclipse.scout.rt.server.services.common.im scout.imap.port ap.AbstractIMAPService#password scout.imap.port org.eclipse.scout.rt.server.services.common.im scout.imap.sslProtocols org.eclipse.scout.rt.server.services.common.im scout.jamap.sslProtocols org.eclipse.scout.rt.server.services.common.im scout.jamap.sslProtocols org.eclipse.scout.rt.server.services.common.im scout.jamap.sonsumer.portCools org.eclipse.scout.rt.server.services.common.im scout.jamap.sconsumer.portCools org.eclipse.scout.rt.server.services.common.im scout.jamap.sconsumer.portCools jaws.consumer.portCoche.corePoolSize scout.jaws.consumer.portCoche.corePoolSize jaws.consumer.portCoche.enabled scout.jaws.consumer.portCo	Old Key	New Key
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jaxws.consumer.portCache.enabled scout.jaxws.consumer.portCache.enabled jaxws.consumer.portPool.enabled scout.jaxws.consumer.portPoolEnabled 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 scout.mom.requestreply.cancellationTopic scout.node.id scout.permission.level.check.cache.ttl scout.permissionLevelCacheTtl org.eclipse.scout.rt.server.services.common.fi le.RemoteFileService#rootPath org.eclipse.scout.rt.server.session.ServerSess ionTtl org.eclipse.scout.rt.serviceTunnel.compress scout.servicetunnel.compress org.eclipse.scout.rt.servicetunnel.apache_max_connections_per_route org.eclipse.scout.rt.servicetunnel.apache_max_connections_per_route org.eclipse.scout.rt.servicetunnel.apache_max_connections_per_route	<pre>jaxws.consumer.connectTimeout</pre>	scout.jaxws.consumer.connectTimeout
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org.eclipse.scout.rt.servicetunnel.apache_max_ scout.servicetunnel.maxConnectionsPerRoute connections_per_route scout.rt.servicetunnel.apache_max_ scout.servicetunnel.maxConnectionsTotal connections_total		scout.serverSessionTtl
connections_per_route org.eclipse.scout.rt.servicetunnel.apache_max_ connections_total scout.servicetunnel.maxConnectionsTotal	org.eclipse.scout.serviceTunnel.compress	scout.servicetunnel.compress
connections_total		scout.servicetunnel.maxConnectionsPerRoute
org.eclipse.scout.rt.servicetunnel.targetUrl scout.servicetunnel.targetUrl		scout.servicetunnel.maxConnectionsTotal
	org.eclipse.scout.rt.servicetunnel.targetUrl	scout.servicetunnel.targetUrl

Old Key	New Key
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#debugReceiverEmail	scout.smtp.debugReceiverEmail
<pre>org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#defaultFromEmail</pre>	scout.smtp.defaultFromEmail
<pre>org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#host</pre>	scout.smtp.host
org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#password	scout.smtp.password
<pre>org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#port</pre>	scout.smtp.port
<pre>org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#sslProtocols</pre>	scout.smtp.sslProtocols
<pre>org.eclipse.scout.rt.server.services.common.sm tp.AbstractSMTPService#subjectPrefix</pre>	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
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcDriverName	scout.sql.jdbc.driverName
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcDriverUnload	scout.sql.jdbc.driverUnload
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
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jdbcStatementCacheSize	scout.sql.jdbc.statementCacheSize
<pre>org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jndiInitialContextFactor y</pre>	scout.sql.jndi.initialContextFactory
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jndiName	scout.sql.jndi.name

Old Key	New Key
org.eclipse.scout.rt.server.services.common.jd bc.AbstractSqlService#jndiProviderUrl	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
scout.sessionstore.housekeepingMaxWaitForShutdown	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>

Customizing CSP Rules Via Config Property

The new config 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]=*
```

IUiServletRequestHandler

The methods handleGet and handlePost on IUiServletRequestHandler were replaced by the single method handle. This new method is called for all HTTP methods.

To retrieve the HTTP method, call <code>getMethod</code> on <code>HttpServletRequest</code>. When using <code>AbstractUiServletRequestHandler</code> no migration should be required because <code>AbstractUiServletRequestHandler</code> delegates to the Java methods for the common HTTP methods <code>handleGet</code>, <code>handlePost</code>, <code>handlePut</code> and <code>handleDelete</code>.

Methods proxyGet and proxyPost on HttpProxy are replaced by the common method proxy.

Table: Remove Obsolete "POPULATED" Event and Methods

We removed remnants of the long-obsolete "population" event in tables:

- ITable.tablePopulated()
- TableEvent.TYPE_TABLE_POPULATED

Migration: Remove any references to the removed method or event from your code. (This should not cause any change in behavior, as the event was not fired by Scout anyways.)

PageField: Status of Page Table Visible by Default

The table field contained in a *PageField* used to have statusVisible set to *false*. This default was changed back to *true* to make it consistent with all other fields. Whether the status should be invisible can only be determined correctly by the programmer, because the PageField can not know about the status visibility in the inner forms (search form and search form).

Migration: To hide the status of a specific *PageField*'s table field, override execInitField() and set the desired status visibility:

```
public class MyPageField extends AbstractPageField<MyTablePage> {
    @Override
    protected void execInitField() {
        getTableField().setStatusVisible(false); // <--
     }
}</pre>
```

Scout REST integration dependencies

The Scout REST integration uses the popular Jackson library as default marshaller. When migrating to Scout 8.x add a maven dependency to jersey-media-json-jackson in your application pom.xml to use Jackson as JAX-RS marshaller with the Jersey JAX-RS implementation. Additionally add a

dependency to the Scout module org.eclipse.scout.rt.rest.jackson. This module adds a set of Jackson additions in order to use the Jackson library together with Scout data objects.

Listing 1. Dependency section of pom.xml to use Scout REST services with Jackson & Jersey

SmartField: changed behavior for applying styles from a lookup-row on the field (since 8.0.0.021)

The SmartField in Scout \leftarrow 6.0 applied the lookup-row properties foregroundColor, backgroundColor, font and tooltipText automatically on the field when a lookup-row has been selected. Because that automatic behavior didn't fit every business requirement, we removed it completely. This means you must implement the property-synchronization where required.

Since we prefer to do styling with CSS and LESS, we now copy the cssClass property from the lookup-row to the field. In some cases this new feature can be used to migrate from older Scout version.

Check the HowTo section *SmartField: how to apply colors and styles from a lookup-row* in Scout's technical guide to find examples for migration and how to work with the cssClass property.

AbstractIcons: Changed constants

- AbstractIcons.Menu ⇒ AbstractIcons.MenuBold
- AbstractIcons.File ⇒ AbstractIcons.FileSolid
- AbstractIcons.Category ⇒ AbstractIcons.CategoryBold

Removed ActivityMapMenuType

For migration, simply remove any references to this class.

Texts and Multi Language Support (NLS) Moved to Platform

The classes AbstractDynamicNlsTextProviderService, ITextProviderService, ScoutTexts and TEXTS have been moved from the shared module to the platform. Accordingly the package of these classes has been changed to org.eclipse.scout.rt.platform.text.

Migration: Change the imports in your *.java files accordingly.

Moved Mail-Related Classes to New Module to org.eclipse.scout.rt.mail (since 8.0.0.021)

The following classes were moved from org.eclipse.scout.rt.shared.mail to a new module named org.eclipse.scout.rt.mail to the package org.eclipse.scout.rt.mail:

- BinaryResourceDataSource
- CharsetSafeMimeMessage
- MailAttachment
- MailHelper
- MailMessage
- MailParticipant
- RFCWrapperPart

For migration, replace all imports for org.eclipse.scout.rt.shared.mail by imports for org.eclipse.scout.rt.mail and add a dependency to the new module org.eclipse.scout.rt.mail.

A new helper org.eclipse.scout.rt.mail.smtp.SmtpHelper replaces the service org.eclipse.scout.rt.server.services.common.smtp.ISMTPService and it's abstract implementation org.eclipse.scout.rt.server.services.common.smtp.AbstractSMTPService.

The only remaining property is SmtpDebugReceiverEmailProperty (scout.smtp.debugReceiverEmail). The following properties are obsolete and configuration must be set in org.eclipse.scout.rt.mail.smtp.SmtpServerConfig:

- SmtpHostProperty (scout.smtp.host)
- SmtpPortProperty (scout.smtp.port)
- SmtpUsernameProperty ('scout.smtp.username)
- SmtpPasswordProperty (scout.smtp.password)
- SmtpSslProtocolsProperty (scout.smtp.sslProtocols)
- SmtpUseAuthenticationProperty (scout.smtp.useAuth)
- SmtpUseSmtpsProperty (scout.smtp.useSsl)

SmtpHelper has no support for subject prefix and default from email anymore.

If a subject prefix is required, i.e. the property SmtpSubjectPrefixProperty (scout.smtp.subjectPrefix) was in use, the subject prefix must be prepended to the subject before calling SmtpHelper by using MailHelper.addPrefixToSubject.

If a default from email is required, i.e. the property SmtpDefaultFromEmailProperty (scout.smtp.defaultFromEmail) was in use, the default from email must be ensured before calling SmtpHelper by using MailHelper.ensureFromAddress.

The following classes are marked deprecated:

- org.eclipse.scout.rt.server.services.common.imap.IIMAPService
- org.eclipse.scout.rt.server.services.common.imap.AbstractIMAPService
- org.eclipse.scout.rt.server.services.common.imap.IImapAdapter
- org.eclipse.scout.rt.server.services.common.imap.ImapAdapter

A new helper org.eclipse.scout.rt.mail.imap.ImapHelper provides some basic (stateless) functionality to connect to an IMAP server, find and create folders or move message to a new folder. Any other functionality must be implemented manually by operating on javax.mail.Message or javax.mail.Folder objects directly.

The following properties are obsolete and configuration must be set in org.eclipse.scout.rt.mail.imap.ImapServerConfig:

- ImapHostProperty (scout.imap.host)
- ImapPortProperty (scout.imap.port)
- ImapMailboxProperty (scout.imap.mailbox)
- ImapUsernameProperty (scout.imap.username)
- ImapPasswordProperty (scout.imap.password)
- ImapSslProtocolsProperty (scout.imap.sslProtocols)

MailHelper#createMimeMessage was improved regarding the structure of the generated mime message. So far a multipart message was always created, even if a simpler structure would have been enough. The new implementation only creates the required parts depending on the provided input: plain text, html, attachments and inline attachments (newly supported).

Deprecated Methods on DefaultAuthToken and Introduced DefaultAuthTokenSigner and DefaultAuthTokenVerifier (since 8.0.0.021)

In order to be able to reuse authentication token code DefaultAuthToken was refactored. Signing and verifying of tokens is now separated from token and its (de-)serialization. The new classes DefaultAuthTokenSigner and DefaultAuthTokenVerifier do now provide this functionality.

StyleHelper Moved to Platform (since 8.0.0.034)

The StyleHelper bean was moved from *org.eclipse.scout.rt.client* to *org.eclipse.scout.rt.platform*, so it is available to server-side code as well. The old StyleHelper bean in the *client* module was marked as deprected and should no longer be used. It will eventually be removed in Scout 10.

Migration: Update your imports to point to the new org.eclipse.scout.rt.platform.html.StyleHelper bean. Methods that passed an IStylable as first argument are no longer available. Instead, directly call the corresponding method on the IStylable element itself.

Implementation of AbstractEntityRestClientExceptionTransformer subclasses changed (since 8.0.0.037)

The implementation of AbstractEntityRestClientExceptionTransformer was change an this might break implementation of sub-classes. Please refer to JavaDoc for any details.

New RemoteSystemUnavailableException (since 8.0.0.033); updated (since 8.0.0.037)

The org.eclipse.scout.rt.shared.servicetunnel.HttpException was replaced by org.eclipse.scout.rt.sharedservicetunnel.http.HttpServiceTunnelException which is derived from the new, general org.eclipse.scout.rt.platform.exception.RemoteSystemUnavailableException. The HttpServiceTunnelException is thrown within the UI server, when a call to the Scout backend server (through the HTTP service tunnel) was unsuccessful and returned a status code < 200 or >= 299. The RemoteSystemUnavailableException and therefore its subclass HttpServiceTunnelException is finally displayed network error the global org.eclipse.scout.rt.client.services.common.exceptionhandler.ErrorPopup. The new RemoteSystemUnavailableException may generally be thrown to indicate an error when the communication with a remote service failed.

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-box-title-padding-top and @group-box-title-padding-bottom
- Splitted @tree-node-padding into @tree-node-padding-y, @tree-node-padding-left and @tree-node-padding-right
- Renamed @group-title-border-width to @group-box-title-border-width
- Renamed @group-margin-bottom to @group-box-body-padding-bottom

- Renamed @group-margin-top to @group-box-body-padding-top
- Added @group-box-title-margin-top
- 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
- Renamed @logical-grid-height to @logical-grid-row-height
- Renamed @applink-color to @link-color

Widget.js: New Argument for clone()

The *clone()* function of any widget got an options parameter. The options define what properties and events are synchronized between the widget and its clone.

Widget.js: "addChild" & "removeChild" Changed to Private

The methods addChild() and removeChild() have been renamed to _addChild() and _removeChild(). This means the methods are considered to have private visibility now. Use the methods setParent(), setOwner() and destroy() to connect or disconnect widgets. These methods will add or remove the child widget automatically.

FormField.js: "visit()" Renamed to "visitFields"

The visit() method on all FormFields has been renamed to visitFields(). This change is necessary to clarify what is visited and to distinguish between the visit methods available on widget level (e.g. visitChildren()).

Tree._visitNodes & Tree.visitNodes

The argument order of the method scout. Tree. visit Nodes have changed from (nodes, func, parent Node) to (func, nodes, parent Node). So the func (the visitor) and the nodes to visit have changed positions.

The arguments of scout.Tree.prototype._visitNodes have changed from (nodes, func, parentNode)

to (func, parentNode). So the nodes to visit must no longer be specified. Instead always the root nodes of the tree are used. Furthermore the method is public now and has therefore be renamed to visitNodes().

Automatic Preloading of Web Fonts

Scout can now detect the web fonts (*.woff) to preload automatically. It's therefore no longer necessary to list the font names manually in the bootstrap argument of scout.App.

Migration:

Remove the fonts property from the bootstrap parameter object passed to the *init()* function of your Scout app.

For example, the default *index.js* file generated by the Scout "helloworld" archetype looks like this:

```
$(document).ready(function() {
  var app = new scout.RemoteApp();
  app.init({
    bootstrap: {
     fonts: ['scoutIcons'] // <-- this property is no longer required
     }
  });
});</pre>
```

If no other init options remain, the file can be simplified to:

```
$(document).ready(function() {
  var app = new scout.RemoteApp();
  app.init();
});
```



To find all files that need migration, search for the text bootstrap: { in all *js files in your workspace. The files are called *index.js* by default and are usually located at *your.project.ui.html/src/main/resources/WebContent/res*.

This migration is recommended but optional. Listing all fonts to preload manually still works. To disable font preloading entirely, set the *fonts* bootstrap property to an empty array [].

Radio Button Group

- The property formFields has been renamed to fields to be consistent with the Java implementation and with other composites like GroupBox.
- The function selectButton now selects the button even if it is disabled. Only the user must not select disabled buttons but the developer should still be able to do it. If you use this function, you may have to insert a check for the enabled state.

Layout of Fields in Radio Button Group and Sequence Box

Until now it was required to explicitly set grid positions for child fields of Radio Button Groups and Sequence Boxes. This was because the automatic grid layout was not yet implemented in the Scout JavaScript layer. This was no issue however if the fields have been used in connection with a Java model because then the Java layer takes care about the layout.

Now also pure JavaScript Scout applications have automatic layout for child fields of Radio Button Groups and Sequence Boxes. So if explicit grid positions (gridData.x, gridData.y) have been specified, it can be removed now as Scout takes care about it now (as it was in the Java layer already).

Form.open()

open() now calls load() first before calling show(). The reason is to prevent showing an empty form before any data is loaded. If you relied on the previous behavior, (e.g. if you accessed ui properties like \$container right after opening the form) you would need to put that code in a function executed delayed using form.open().then().

Status

The static function scout.Status.warn() was renamed to scout.Status.warning() to bring it in line with the name of the corresponding severity constant scout.Status.Severity.WARNING.

MenuBar

In previous versions, right aligned menus were not stacked when there was not enough horizontal space. If this behavior is still required, the property stackable has to be set to *false*.

LookupRow: Removed Constructor

The custom *LookupRow* constructor with key and text parameter was removed. LookupRows must be created using the scout.create() object factory call.

Old style code like:

```
var lookupRow = new scout.LookupRow(data[0], data[1]);
```

must be replaced by:

```
var lookupRow = scout.create('LookupRow', {
  key: data[0],
  text: data[1],
  parentKey: data[2]  ①
});
```

1 Optional parent key and other properties

Call: Skip Retries by Default (since 8.0.0.021)

Call objects no longer perform retries by default. Retries should only be active if the target service can handle repeated calls correctly.

The use retries, specify the desired number of maximal retries or a *retryIntervals* array in the model when creating the Call object:

```
var call1 = scout.create('AjaxCall', {
    ajaxOptions: { ... }
    maxRetries: 5
});
var call2 = scout.create('AjaxCall', {
    ajaxOptions: { ... }
    retryIntervals: [100, 200, 500, 500];
});
```

ErrorHandler: Extended Support for Arbitrary Errors (since 8.0.0.021)

Because errors that happen in asynchronous calls (promise chains) are not delegated to the window.onerror handler, Scout's ErrorHandler class was extended. It can now be used to handle arbitrary erros in "catch" clauses or "promise fail" functions. As a consequence, the signature of the handle() has been changed. It used to be hard-wired to the window.onerror event. Now it supports a flexible number of arguments.

A global instance of ErrorHandler is still being installed as the window.onerror handler. Additionally, this instance is now available as scout.errorHandler.

Example usages:

```
// Handling errors in "try" blocks
try {
 // ...
} catch (err) {
 scout.errorHandler.handle(err);
}
// Handle errors in jQuery AJAX calls
$.ajax(ajaxOptions)
  .done(function(data, textStatus, jqXHR) {
    /* handle success */
 })
  .fail(function(jqXHR, textStatus, errorThrown) {
    // Style 1:
    scout.errorHandler.handle(jqXHR, textStatus, errorThrown);
   // Style 2 (recommended!):
    scout.errorHandler.handle(arguments);
 })
// Handling errors in promises
doSomethingAsynchronous()
  .then(function() { /* handle result */ })
  .then(function() { /* more handling */ })
  .fail(function() {
    scout.errorHandler.handle(arguments);
 });
```

Migration:

Projects that implemented their own ErrorHandler must update their code.

- Instead of overriding *handle()*, override *_onWindowError()*.
- Please note that that the method *createLogMessage()* no longer exists. If you still need it, copy it from the old implementation or use *analyzeError()* to calculate a similar result.

SmartField / DateField: Renamed touch to touchMode (since 8.0.0.021)

Smart fields and date fields use the property touch to indicate that the field is running in touch mode. Unfortunately this property overrides the function touch() of the FormField. This means touch() cannot be used for these fields, which was not intended.

Migration: The property touch is actually set automatically, so most people don't have to migrate anything. If you set the property manually (e.g. to always run such a field in touch mode), you need to rename it to touchMode.

Other Changes

jQuery Update

The jQuery version bundled with Scout has been updated to version 3.3.1. If a *SpecRunnerMaven.html* is used to run Jasmine tests, the corresponding script tag must be updated to include jquery-3.3.1.js instead of jquery-3.2.1.js.



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