Eclipse Scout Migration Guide

Scout Team

Version 10.0

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About This Document

This document describes all relevant changes **from Eclipse Scout 9.0 to Eclipse Scout 10.0**. If existing code has to be migrated, instructions are provided here.

Service Releases

Scout 10.0 will continue to be maintained for a while and a new build may be released from time to time, following the Simultaneous Release Cycle. Beside bugfixes, these service releases may even contain some minor features.

The following changes were made after the initial 10.0 release.

Simrel 2020-03 — TBD



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

API Changes (Java)

StrictSimpleDateFormat

org.eclipse.scout.rt.jackson.dataobject.StrictSimpleDateFormat was removed. Use org.eclipse.scout.rt.platform.util.date.StrictSimpleDateFormat instead.

ObjectUtility

nvlOptional() was renamed to nvlOpt().

Data Objects

The Scout data object support was moved from the Scout platform to the module org.eclipse.scout.rt.dataobject. The package imports of all data object related classes therefore changed: From org.eclipse.scout.rt.platform.dataobject to org.eclipse.scout.rt.dataobject

Renamings

```
org.eclipse.scout.rt.client.ui.desktop.datachange.DoChangeEvent
org.eclipse.scout.rt.client.ui.desktop.datachange.ItemDataChangeEvent
```

Dependencies

All modules which use data objects were extended with a dependency to org.eclipse.scout.rt.dataobject

org.eclipse.scout.rt.rest

• org.eclipse.scout.rt.mom.api

Renamings in ErrorDo

```
    org.eclipse.scout.rt.rest.error.ErrorDo#status
    org.eclipse.scout.rt.rest.error.ErrorDo#code
    org.eclipse.scout.rt.rest.error.ErrorDo#code
    org.eclipse.scout.rt.rest.error.ErrorDo#errorCode
```

CacheBuilder

The following methods on CacheBuilder where removed, since they were unused and covered unused, old functionality:

- Method org.eclipse.scout.rt.shared.cache.CacheBuilder.addCacheInstance(ICache<K, V>)
- Method org.eclipse.scout.rt.shared.cache.CacheBuilder.getCacheInstances()

Move ICache and transactional Map

AbstractTransactionalMap and its concrete implementations ConcurrentTransactionalMap and CopyOnWriteTransactionalMap have been moved to org.eclipse.scout.rt.platform.util.collection.

ICache, its implementations and cache wrappers have been moved to org.eclipse.scout.rt.platform.cache.

Authorization API

The authorization API of scout was extended and moved from org.eclipse.scout.rt.shared into its own module. You may check the technical guide for further details.

- Introduced IPermissionCollection and IPermission interfaces
- Let all current scout permission (e.g. CopyToClipboardPermission) implement IPermission
- All scout permission names are now prefixed with scout.
- RemoteServiceAccessPermission#getName returns a stable name instead of the service operation pattern
- Deleted BasicHierarchyPermission. If required, you may copy from an older version of scout.
- org.eclipse.scout.rt.shared.services.common.security.IAccessControlService moved to org.eclipse.scout.rt.security
- IAccessControlService#getPermissionLevel removed; use instead ACCESS#getGrantedPermissionLevel
- IAccessControlService#checkPermission removed; use instead ACCESS#check
- IAccessControlService#getPermissions must now **never** return null. Instead NonePermissionCollection or AllPermissionCollection may be returned.
- org.eclipse.scout.rt.shared.services.common.security.ACCESS moved to org.eclipse.scout.rt.security.ACCESS

- ACCESS#check now fails if argument is null (before succeeds).
- org.eclipse.scout.rt.shared.services.common.security.AbstractAccessControlService moved to org.eclipse.scout.rt.security
- AbstractAccessControlService#getUserIdOfCurrentUser moved to Sessions#getCurrentUserId()

Load Permissions

With the new IPermissionCollection, loading of permissions in AbstractAccessControlService#execLoadPermissions has changed.

- Create a new instance by calling BEANS.get(DefaultPermissionCollection.class) instead of new java.security.Permissions().
- Add permissions with a permission level: permissions.add(new ReadUsersPermission(), PermissionLevel.ALL);
- Do not forget to set permission collection as read only: permissions.setReadOnly();

There is also a AllPermissionCollection which may be used instead of DefaultPermissionCollection.

TestingUtility → **BeanTestingHelper**

The following methods are deprecated. Use the corresponding methods on BeanTestingHelper via BeanTestingHelper.get() instead:

- registerBeans
- registerBean
- unregisterBean
- unregisterBeans
- mockConfigProperty

The following replacement regex can be applied on all Java files:

\bTestingUtility\.(registerBeans|registerBean|unregisterBeans|mockConfigProperty) to BeanTestingHelper.get().\$1

The following methods are deprecated and will be removed in a future release without a replacement:

- registerWithReplace
- registerWithTestingOrder
- clearHttpAuthenticationCache

API Changes (JavaScript)

REST Service Changes

Any changes which may change how REST consumer or provider behave.

Renamings in ErrorDo

org.eclipse.scout.rt.rest.error.ErrorDo used by org.eclipse.scout.rt.rest.client.proxy.ErrorDoRestClientExceptionTransformer and org.eclipse.scout.rt.rest.exception.AbstractExceptionMapper<E> was slightly changed:

- ErrorDo#status → ErrorDo#httpStatus
- ErrorDo#code → ErrorDo#errorCode

Different HTTP status codes

A REST service client using ErrorDoRestClientExceptionTransformer will now transform

- any client request error (HTTP 4xx status codes) into a VetoException
- 403 Forbidden into a org.eclipse.scout.rt.dataobject.exception.AccessForbiddenException
- 404 Not Found into a org.eclipse.scout.rt.dataobject.exception.ResourceNotFoundException

The org.eclipse.scout.rt.rest.exception.VetoExceptionMapper used by a REST service provide will now create an error response with status 400 - Bad Request (this was formerly a 403).



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