

EDIT - bug #6067

CdmEagerLoadingException after having multiple editors open for ~4 hours

09/12/2016 09:23 AM - Andreas Kohlbecker

Status:	New	Start date:	
Priority:	New	Due date:	
Assignee:	Katja Luther	% Done:	0%
Category:	taxeditor	Estimated time:	0:00 hour
Target version:	Unassigned CDM tickets	Found in Version:	
Severity:	normal		
Description			
<p>Hallo, nachdem ich über 40 Fenster über lange Zeit (mehrere Stunden) offen hatte, bekam ich die Fehlermeldungen VG Henning</p> <pre>ogin : admin editor version : 4.3.0.201608011912 server : test.e-taxonomy.eu / edit-test schema version : 4.0.0.0.201604200000 os : Windows 7 6.1 amd64 java : 1.7.0_75 org.eclipse.swt.SWTException: Failed to execute runnable (eu.etaxonomy.taxeditor.remoting.CdmEager LoadingException: java.lang.NullPointerException) at org.eclipse.swt.SWT.error (SWT.java:4282) at org.eclipse.swt.SWT.error (SWT.java:4197) at org.eclipse.swt.widgets.Synchronizer.runAsyncMessages (Synchronizer.java:138) at org.eclipse.swt.widgets.Display.runAsyncMessages (Display.java:4140) at org.eclipse.swt.widgets.Display.readAndDispatch (Display.java:3757) at org.eclipse.jface.window.Window.runEventLoop (Window.java:825) at org.eclipse.jface.window.Window.open (Window.java:801) at org.eclipse.jface.dialogs.ErrorDialog.open (ErrorDialog.java:360) at eu.etaxonomy.taxeditor.model.MessagingUtils\$1.run (MessagingUtils.java:268) at org.eclipse.swt.widgets.RunnableLock.run (RunnableLock.java:35) at org.eclipse.swt.widgets.Synchronizer.runAsyncMessages (Synchronizer.java:135) at org.eclipse.swt.widgets.Display.runAsyncMessages (Display.java:4140) at org.eclipse.swt.widgets.Display.readAndDispatch (Display.java:3757) at org.eclipse.jface.window.Window.runEventLoop (Window.java:825) at org.eclipse.jface.window.Window.open (Window.java:801) at org.eclipse.ui.internal.EditorManager.saveAll (EditorManager.java:1236) at org.eclipse.ui.internal.Workbench\$19.run (Workbench.java:1189) at org.eclipse.core.runtime.SafeRunner.run (SafeRunner.java:42) at org.eclipse.ui.internal.Workbench.saveAllEditors (Workbench.java:1138) at org.eclipse.ui.internal.Workbench.busyClose (Workbench.java:1056) at org.eclipse.ui.internal.Workbench.access\$15 (Workbench.java:1040) at org.eclipse.ui.internal.Workbench\$25.run (Workbench.java:1284) at org.eclipse.swt.custom.BusyIndicator.showWhile (BusyIndicator.java:70) at org.eclipse.ui.internal.Workbench.close (Workbench.java:1282) at org.eclipse.ui.internal.Workbench.close (Workbench.java:1254) at org.eclipse.ui.internal.WorkbenchWindow.busyClose (WorkbenchWindow.java:727) at org.eclipse.ui.internal.WorkbenchWindow.access\$0 (WorkbenchWindow.java:715) at org.eclipse.ui.internal.WorkbenchWindow\$6.run (WorkbenchWindow.java:867) at org.eclipse.swt.custom.BusyIndicator.showWhile (BusyIndicator.java:70) at org.eclipse.ui.internal.WorkbenchWindow.close (WorkbenchWindow.java:865) at org.eclipse.jface.window.Window.handleShellCloseEvent (Window.java:741) at org.eclipse.jface.window.Window\$3.shellClosed (Window.java:687) at org.eclipse.swt.widgets.TypedListener.handleEvent (TypedListener.java:98) at org.eclipse.swt.widgets.EventTable.sendEvent (EventTable.java:84) at org.eclipse.swt.widgets.Widget.sendEvent (Widget.java:1053) at org.eclipse.swt.widgets.Widget.sendEvent (Widget.java:1077) at org.eclipse.swt.widgets.Widget.sendEvent (Widget.java:1062) at org.eclipse.swt.widgets.Decorations.closeWidget (Decorations.java:308)</pre>			

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at org.eclipse.swt.widgets.Decorations.WM_CLOSE(Decorations.java:1677)
at org.eclipse.swt.widgets.Control.windowProc(Control.java:4530)
at org.eclipse.swt.widgets.Canvas.windowProc(Canvas.java:341)
at org.eclipse.swt.widgets.Decorations.windowProc(Decorations.java:1610)
at org.eclipse.swt.widgets.Shell.windowProc(Shell.java:2061)
at org.eclipse.swt.widgets.Display.windowProc(Display.java:4972)
at org.eclipse.swt.internal.win32.OS.DefWindowProcW(Native Method)
at org.eclipse.swt.internal.win32.OS.DefWindowProc(OS.java:2526)
at org.eclipse.swt.widgets.Shell.callWindowProc(Shell.java:498)
at org.eclipse.swt.widgets.Control.windowProc(Control.java:4623)
at org.eclipse.swt.widgets.Canvas.windowProc(Canvas.java:341)
at org.eclipse.swt.widgets.Decorations.windowProc(Decorations.java:1610)
at org.eclipse.swt.widgets.Shell.windowProc(Shell.java:2061)
at org.eclipse.swt.widgets.Display.windowProc(Display.java:4972)
at org.eclipse.swt.internal.win32.OS.DefWindowProcW(Native Method)
at org.eclipse.swt.internal.win32.OS.DefWindowProc(OS.java:2526)
at org.eclipse.swt.widgets.Shell.callWindowProc(Shell.java:498)
at org.eclipse.swt.widgets.Control.windowProc(Control.java:4623)
at org.eclipse.swt.widgets.Canvas.windowProc(Canvas.java:341)
at org.eclipse.swt.widgets.Decorations.windowProc(Decorations.java:1610)
at org.eclipse.swt.widgets.Shell.windowProc(Shell.java:2061)
at org.eclipse.swt.widgets.Display.windowProc(Display.java:4972)
at org.eclipse.swt.internal.win32.OS.DispatchMessageW(Native Method)
at org.eclipse.swt.internal.win32.OS.DispatchMessage(OS.java:2531)
at org.eclipse.swt.widgets.Display.readAndDispatch(Display.java:3752)
at org.eclipse.ui.internal.Workbench.runEventLoop(Workbench.java:2701)
at org.eclipse.ui.internal.Workbench.runUI(Workbench.java:2665)
at org.eclipse.ui.internal.Workbench.access$4(Workbench.java:2499)
at org.eclipse.ui.internal.Workbench$7.run(Workbench.java:679)
at org.eclipse.core.databinding.observable.Realm.runWithDefault(Realm.java:332)
at org.eclipse.ui.internal.Workbench.createAndRunWorkbench(Workbench.java:668)
at org.eclipse.ui.PlatformUI.createAndRunWorkbench(PlatformUI.java:149)
at eu.etaxonomy.taxeditor.Application.start(Application.java:24)
at org.eclipse.equinox.internal.app.EclipseAppHandle.run(EclipseAppHandle.java:196
)
at org.eclipse.core.runtime.internal.adaptor.EclipseAppLauncher.runApplication(Ecl
ipseAppLauncher.java:110)
at org.eclipse.core.runtime.internal.adaptor.EclipseAppLauncher.start(EclipseAppLa
uncher.java:79)
at org.eclipse.core.runtime.adaptor.EclipseStarter.run(EclipseStarter.java:344)
at org.eclipse.core.runtime.adaptor.EclipseStarter.run(EclipseStarter.java:179)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
at java.lang.reflect.Method.invoke(Unknown Source)
at org.eclipse.equinox.launcher.Main.invokeFramework(Main.java:622)
at org.eclipse.equinox.launcher.Main.basicRun(Main.java:577)
at org.eclipse.equinox.launcher.Main.run(Main.java:1410)
Caused by: eu.etaxonomy.taxeditor.remoting.CdmEagerLoadingException: java.lang.NullPointerExceptio
n
at org.hibernate.collection.internal.AbstractPersistentCollection.remoteInitialize
(AbstractPersistentCollection.java:1358)
at org.hibernate.collection.internal.AbstractPersistentCollection.initialize(Abstr
actPersistentCollection.java:627)
at org.hibernate.collection.internal.AbstractPersistentCollection.read(AbstractPer
sistentCollection.java:167)
at org.hibernate.collection.internal.AbstractPersistentCollection.readSize(Abstrac
tPersistentCollection.java:184)
at org.hibernate.collection.internal.PersistentList.size(PersistentList.java:114)
at eu.etaxonomy.taxeditor.ui.section.AbstractEntityCollectionSection.setSectionTit
le(AbstractEntityCollectionSection.java:145)
at eu.etaxonomy.taxeditor.ui.section.AbstractEntityCollectionSection.internalUpdat
eSection(AbstractEntityCollectionSection.java:171)
at eu.etaxonomy.taxeditor.ui.section.AbstractEntityCollectionSection.setEntity(Abs
tractEntityCollectionSection.java:133)
at eu.etaxonomy.taxeditor.view.detail.CdmSectionPart.setFormInput(CdmSectionPart.j
ava:109)

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        at org.eclipse.ui.forms.ManagedForm.setInput (ManagedForm.java:238)
        at eu.etaxonomy.taxeditor.view.AbstractCdmDataViewer.refresh (AbstractCdmDataViewer
.java:155)
        at eu.etaxonomy.taxeditor.view.AbstractCdmDataViewer.setInput (AbstractCdmDataViewe
r.java:135)
        at eu.etaxonomy.taxeditor.view.AbstractCdmViewPart.showViewer (AbstractCdmViewPart.
java:116)
        at eu.etaxonomy.taxeditor.view.supplementaldata.SupplementalDataViewPart.selection
Changed_internal (SupplementalDataViewPart.java:96)
        at eu.etaxonomy.taxeditor.view.AbstractCdmEditorViewPart$DelaySelection.run (Abstra
ctCdmEditorViewPart.java:52)
        at org.eclipse.swt.widgets.RunWithLock.run (RunWithLock.java:35)
        at org.eclipse.swt.widgets.Synchronizer.runAsyncMessages (Synchronizer.java:135)
        ... 80 more
Caused by: java.lang.NullPointerException
        at eu.etaxonomy.cdm.persistence.dao.hibernate.common.CdmGenericDaoImpl.initializeC
ollection (CdmGenericDaoImpl.java:785)
        at eu.etaxonomy.cdm.api.service.CommonServiceImpl.initializeCollection (CommonServi
ceImpl.java:342)
        at sun.reflect.GeneratedMethodAccessor1581.invoke (Unknown Source)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke (DelegatingMethodAccessorImpl.ja
va:43)
        at java.lang.reflect.Method.invoke (Method.java:497)
        at org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection (AopUtil
s.java:302)
        at org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint (Re
flectiveMethodInvocation.java:190)
        at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed (Reflective
MethodInvocation.java:157)
        at org.springframework.transaction.interceptor.TransactionInterceptor.invoke (Trans
actionInterceptor.java:110)
        at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed (Reflective
MethodInvocation.java:179)
        at org.springframework.aop.framework.JdkDynamicAopProxy.invoke (JdkDynamicAopProxy.
java:208)
        at com.sun.proxy.$Proxy3375.initializeCollection (Unknown Source)
        at sun.reflect.GeneratedMethodAccessor1581.invoke (Unknown Source)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke (DelegatingMethodAccessorImpl.ja
va:43)
        at java.lang.reflect.Method.invoke (Method.java:497)
        at org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection (AopUtil
s.java:302)
        at org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint (Re
flectiveMethodInvocation.java:190)
        at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed (Reflective
MethodInvocation.java:157)
        at org.springframework.remoting.support.RemoteInvocationTraceInterceptor.invoke (Re
moteInvocationTraceInterceptor.java:78)
        at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed (Reflective
MethodInvocation.java:179)
        at org.springframework.aop.framework.JdkDynamicAopProxy.invoke (JdkDynamicAopProxy.
java:208)
        at com.sun.proxy.$Proxy3634.initializeCollection (Unknown Source)
        at sun.reflect.GeneratedMethodAccessor2414.invoke (Unknown Source)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke (DelegatingMethodAccessorImpl.ja
va:43)
        at java.lang.reflect.Method.invoke (Method.java:497)
        at org.springframework.remoting.support.RemoteInvocation.invoke (RemoteInvocation.j
ava:212)
        at org.springframework.remoting.support.DefaultRemoteInvocationExecutor.invoke (Def
aultRemoteInvocationExecutor.java:39)
        at org.springframework.remoting.support.RemoteInvocationBasedExporter.invoke (Remot
eInvocationBasedExporter.java:78)
        at org.springframework.remoting.support.RemoteInvocationBasedExporter.invokeAndCre
ateResult (RemoteInvocationBasedExporter.java:114)
        at org.springframework.remoting.httpinvoker.HttpInvokerServiceExporter.handleReque
st (HttpInvokerServiceExporter.java:74)

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at org.springframework.web.servlet.mvc.HttpRequestHandlerAdapter.handle (HttpRequestHandlerAdapter.java:51)
at org.springframework.web.servlet.DispatcherServlet.doDispatch (DispatcherServlet.java:959)
at org.springframework.web.servlet.DispatcherServlet.doService (DispatcherServlet.java:893)
at org.springframework.web.servlet.FrameworkServlet.processRequest (FrameworkServlet.java:969)
at org.springframework.web.servlet.FrameworkServlet.doPost (FrameworkServlet.java:871)
at javax.servlet.http.HttpServlet.service (HttpServlet.java:707)
at org.springframework.web.servlet.FrameworkServlet.service (FrameworkServlet.java:845)
at javax.servlet.http.HttpServlet.service (HttpServlet.java:790)
at org.eclipse.jetty.servlet.ServletHolder.handle (ServletHolder.java:808)
at org.eclipse.jetty.servlet.ServletHandler$CachedChain.doFilter (ServletHandler.java:1669)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:316)
at org.springframework.security.web.access.intercept.FilterSecurityInterceptor.invoke (FilterSecurityInterceptor.java:126)
at org.springframework.security.web.access.intercept.FilterSecurityInterceptor.doFilter (FilterSecurityInterceptor.java:90)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:330)
at org.springframework.security.web.access.ExceptionTranslationFilter.doFilter (ExceptionTranslationFilter.java:114)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:330)
at org.springframework.security.web.session.SessionManagementFilter.doFilter (SessionManagementFilter.java:122)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:330)
at org.springframework.security.web.authentication.AnonymousAuthenticationFilter.doFilter (AnonymousAuthenticationFilter.java:111)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:330)
at org.springframework.security.web.servletapi.SecurityContextHolderAwareRequestFilter.doFilter (SecurityContextHolderAwareRequestFilter.java:169)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:330)
at org.springframework.security.web.savedrequest.RequestCacheAwareFilter.doFilter (RequestCacheAwareFilter.java:48)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:330)
at org.springframework.security.web.authentication.www.BasicAuthenticationFilter.doFilterInternal (BasicAuthenticationFilter.java:213)
at org.springframework.web.filter.OncePerRequestFilter.doFilter (OncePerRequestFilter.java:107)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:330)
at org.springframework.security.web.authentication.ui.DefaultLoginPageGeneratingFilter.doFilter (DefaultLoginPageGeneratingFilter.java:162)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:330)
at org.springframework.security.web.authentication.AbstractAuthenticationProcessingFilter.doFilter (AbstractAuthenticationProcessingFilter.java:205)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:330)
at org.springframework.security.web.authentication.logout.LogoutFilter.doFilter (LogoutFilter.java:120)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (FilterChainProxy.java:330)
at org.springframework.security.web.header.HeaderWriterFilter.doFilterInternal (HeaderWriterFilter.java:64)
at org.springframework.web.filter.OncePerRequestFilter.doFilter (OncePerRequestFilter.java:107)
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        at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (F
ilterChainProxy.java:330)
        at org.springframework.security.web.context.request.async.WebAsyncManagerIntegrati
onFilter.doFilterInternal (WebAsyncManagerIntegrationFilter.java:53)
        at org.springframework.web.filter.OncePerRequestFilter.doFilter (OncePerRequestFilt
er.java:107)
        at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (F
ilterChainProxy.java:330)
        at org.springframework.security.web.context.SecurityContextPersistenceFilter.doFil
ter (SecurityContextPersistenceFilter.java:91)
        at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter (F
ilterChainProxy.java:330)
        at org.springframework.security.web.FilterChainProxy.doFilterInternal (FilterChainP
roxy.java:213)
        at org.springframework.security.web.FilterChainProxy.doFilter (FilterChainProxy.jav
a:176)
        at org.springframework.web.filter.DelegatingFilterProxy.invokeDelegate (DelegatingF
ilterProxy.java:346)
        at org.springframework.web.filter.DelegatingFilterProxy.doFilter (DelegatingFilterP
roxy.java:262)
        at org.eclipse.jetty.servlet.ServletHandler$CachedChain.doFilter (ServletHandler.ja
va:1652)
        at org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal (Charact
erEncodingFilter.java:121)
        at org.springframework.web.filter.OncePerRequestFilter.doFilter (OncePerRequestFilt
er.java:107)
        at org.eclipse.jetty.servlet.ServletHandler$CachedChain.doFilter (ServletHandler.ja
va:1652)
        at org.eclipse.jetty.servlet.ServletHandler.doHandle (ServletHandler.java:585)
        at org.eclipse.jetty.server.handler.ScopedHandler.handle (ScopedHandler.java:143)
        at org.eclipse.jetty.security.SecurityHandler.handle (SecurityHandler.java:577)
        at org.eclipse.jetty.server.session.SessionHandler.doHandle (SessionHandler.java:22
3)
        at org.eclipse.jetty.server.handler.ContextHandler.doHandle (ContextHandler.java:11
27)
        at org.eclipse.jetty.servlet.ServletHandler.doScope (ServletHandler.java:515)
        at org.eclipse.jetty.server.session.SessionHandler.doScope (SessionHandler.java:185
)
        at org.eclipse.jetty.server.handler.ContextHandler.doScope (ContextHandler.java:106
1)
        at org.eclipse.jetty.server.handler.ScopedHandler.handle (ScopedHandler.java:141)
        at org.eclipse.jetty.server.handler.ContextHandlerCollection.handle (ContextHandler
Collection.java:215)
        at org.eclipse.jetty.server.handler.HandlerWrapper.handle (HandlerWrapper.java:97)
        at org.eclipse.jetty.server.Server.handle (Server.java:497)
        at org.eclipse.jetty.server.HttpChannel.handle (HttpChannel.java:310)
        at org.eclipse.jetty.server.HttpConnection.onFillable (HttpConnection.java:257)
        at org.eclipse.jetty.io.AbstractConnection$2.run (AbstractConnection.java:540)
        at org.eclipse.jetty.util.thread.QueuedThreadPool.runJob (QueuedThreadPool.java:635
)
        at org.eclipse.jetty.util.thread.QueuedThreadPool$3.run (QueuedThreadPool.java:555)
        at java.lang.Thread.run (Thread.java:745)
        at org.springframework.remoting.support.RemoteInvocationUtils.fillInClientStackTra
ceIfPossible (RemoteInvocationUtils.java:45)
        at org.springframework.remoting.support.RemoteInvocationResult.recreate (RemoteInvo
cationResult.java:149)
        at org.springframework.remoting.support.RemoteInvocationBasedAccessor.recreateRemo
teInvocationResult (RemoteInvocationBasedAccessor.java:85)
        at org.springframework.remoting.httpinvoker.HttpInvokerClientInterceptor.invoke (Ht
tpInvokerClientInterceptor.java:150)
        at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed (Reflective
MethodInvocation.java:179)
        at org.springframework.aop.framework.JdkDynamicAopProxy.invoke (JdkDynamicAopProxy.
java:208)
        at com.sun.proxy.$Proxy7.initializeCollection (Unknown Source)
        at eu.etaxonomy.taxeditor.service.CachedCommonServiceImpl.initializeCollection (Cac
hedCommonServiceImpl.java:70)

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at org.hibernate.collection.internal.AbstractPersistentCollection.remoteInitialize
(AbstractPersistentCollection.java:1340)
... 96 more
```

History

#1 - 09/12/2016 09:50 AM - Andreas Müller

The relevant code is at `CdmGenericDaoImpl.initializeCollection(UUID ownerId, ...)` line 784

```
CdmBase cdmBase = load(ownerUuid, propertyPaths);
Field field = ReflectionUtils.findField(cdmBase.getClass(), fieldName);
```

So it looks like `ownerUuid` does not exist anymore. Maybe it was deleted before by one of the many sessions Henning had opened? From the stacktrace we can't say which uuid does not exist anymore.

So we could do the following:

Adjust the code in a way that the NPE is handled as a specific exception clearly explaining to the users that there is a required object that probably has been deleted in the meanwhile and therefore the required action can not be performed.

On `cdmlib` side this exception handling needs to be generic. More difficult is the editor side where this problem may occur at many different places and the question is if we want to catch and react on it always specifically.

Generally it is a concurrent transaction handling issue and which is a general issue that is not yet discussed and implemented properly.

#2 - 09/12/2016 09:50 AM - Andreas Müller

- Assignee changed from *Andreas Müller* to *Katja Luther*

#3 - 09/12/2016 10:04 AM - Andreas Kohlbecker

Henning was about to close some views/editors when this happened.

I think that this exception related to the fresh import that I applied to the running `cdm` instance while Henning had Editors with old data open. This is a very unusual situation and I don't think that we need to invest time for that, therefore I suggest to close this ticket as 'wontfix'.

#4 - 09/12/2016 10:18 AM - Andreas Müller

So it is you who deleted data in the meanwhile?

However, the general transaction problem exist. No matter if an object is deleted by a fresh import or by some other user or by the same user within an other transaction and it may reappear.

So at least improving the error handling for uuids which do not have a persisted object anymore to me seems like a good idea (also at other places).

Same as creating a new ticket for general transaction handling.

#5 - 09/12/2016 10:29 AM - Andreas Kohlbecker

Andreas Müller wrote:

So it is you who deleted data in the meanwhile?

Exactly, the old data was deleted when applied the new import the db.