

Edit - bug #7679

NPE when creating root child in classification

08/23/2018 05:28 PM - Andreas Müller

Status:	Closed	Start date:	08/23/2018
Priority:	Highest	Due date:	
Assignee:	Patrick Plitzner	% Done:	100%
Category:	taxeditor	Estimated time:	0.00 hour
Target version:	Release 5.2	Found in Version:	
Severity:	critical		

Description

When calling "new" on classification, the dialog does not show the "publish" checkbox for some reason. Also the unplaced and excluded and ExludedNotes controls are not shown. At least the isPublic checkbox is critical as it throws the below NPE and the taxon can not be created.

I cannot see a reason why these fields should not be shown when being called from a classification.

```
login : admin
editor version : 5.2.0.201808162248
server : test.e-taxonomy.eu (edit-test) / rem_conf_am
schema version : 5.0.0.0.20180514
os : Windows Server 2012 R2 6.3 amd64
java : 1.8.0_121
java.lang.NullPointerException
    at eu.etaxonomy.taxeditor.ui.section.classification.TaxonNodeDetailElement.is_publish(TaxonNodeDetailElement.java:392)
    at eu.etaxonomy.taxeditor.ui.section.classification.TaxonNodeWizardPage.createTaxon(TaxonNodeWizardPage.java:143)
    at eu.etaxonomy.taxeditor.newWizard.NewTaxonNodeWizard.saveEntity(NewTaxonNodeWizard.java:56)
    at eu.etaxonomy.taxeditor.newWizard.AbstractNewEntityWizard.performFinish(AbstractNewEntityWizard.java:54)
    at org.eclipse.jface.wizard.WizardDialog.finishPressed(WizardDialog.java:790)
    at org.eclipse.jface.wizard.WizardDialog.buttonPressed(WizardDialog.java:423)
    at org.eclipse.jface.dialogs.Dialog$2.widgetSelected(Dialog.java:618)
    at org.eclipse.swt.widgets.TypedListener.handleEvent(TypedListener.java:249)
    at org.eclipse.swt.widgets.EventTable.sendEvent(EventTable.java:84)
    at org.eclipse.swt.widgets.Display.sendEvent(Display.java:4418)
    at org.eclipse.swt.widgets.Widget.sendEvent(Widget.java:1079)
    at org.eclipse.swt.widgets.Display.runDeferredEvents(Display.java:4236)
    at org.eclipse.swt.widgets.Display.readAndDispatch(Display.java:3824)
    at org.eclipse.jface.window.Window.runEventLoop(Window.java:818)
    at org.eclipse.jface.window.Window.open(Window.java:794)
    at eu.etaxonomy.taxeditor.navigation.navigator.e4.handler.NewTaxonNodeHandlerE4.execute(NewTaxonNodeHandlerE4.java:56)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.eclipse.e4.core.internal.di.MethodRequestor.execute(MethodRequestor.java:55)
    at org.eclipse.e4.core.internal.di.InjectorImpl.invokeUsingClass(InjectorImpl.java:282)
    at org.eclipse.e4.core.internal.di.InjectorImpl.invoke(InjectorImpl.java:264)
    at org.eclipse.e4.core.contexts.ContextInjectionFactory.invoke(ContextInjectionFactory.java:132)
    at org.eclipse.e4.core.commands.internal.HandlerServiceHandler.execute(HandlerServiceHandler.java:152)
    at org.eclipse.core.commands.Command.executeWithChecks(Command.java:494)
    at org.eclipse.core.commands.ParameterizedCommand.executeWithChecks(ParameterizedCommand.java:488)
    at org.eclipse.e4.core.commands.internal.HandlerServiceImpl.executeHandler(HandlerServiceImpl.java:210)
    at org.eclipse.e4.ui.workbench.renderers.swt.HandledContributionItem.executeItem(HandledContributionItem.java:132)
```

```

butionItem.java:433)
    at org.eclipse.e4.ui.workbench.renderers.swt.AbstractContributionItem.handleWidgetSelection (AbstractContributionItem.java:454)
    at org.eclipse.e4.ui.workbench.renderers.swt.AbstractContributionItem$3.handleEvent (AbstractContributionItem.java:482)
    at org.eclipse.swt.widgets.EventTable.sendEvent (EventTable.java:84)
    at org.eclipse.swt.widgets.Display.sendEvent (Display.java:4418)
    at org.eclipse.swt.widgets.Widget.sendEvent (Widget.java:1079)
    at org.eclipse.swt.widgets.Display.runDeferredEvents (Display.java:4236)
    at org.eclipse.swt.widgets.Display.readAndDispatch (Display.java:3824)
    at org.eclipse.e4.ui.internal.workbench.swt.PartRenderingEngine$4.run (PartRenderingEngine.java:1121)
    at org.eclipse.core.databinding.observable.Realm.runWithDefault (Realm.java:336)
    at org.eclipse.e4.ui.internal.workbench.swt.PartRenderingEngine.run (PartRenderingEngine.java:1022)
    at org.eclipse.e4.ui.internal.workbench.E4Workbench.createAndRunUI (E4Workbench.java:150)
    at org.eclipse.ui.internal.Workbench$5.run (Workbench.java:693)
    at org.eclipse.core.databinding.observable.Realm.runWithDefault (Realm.java:336)
    at org.eclipse.ui.internal.Workbench.createAndRunWorkbench (Workbench.java:610)
    at org.eclipse.ui.PlatformUI.createAndRunWorkbench (PlatformUI.java:148)
    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 (EclipseAppLauncher.java:134)
    at org.eclipse.core.runtime.internal.adaptor.EclipseAppLauncher.start (EclipseAppLauncher.java:104)
    at org.eclipse.core.runtime.adaptor.EclipseStarter.run (EclipseStarter.java:388)
    at org.eclipse.core.runtime.adaptor.EclipseStarter.run (EclipseStarter.java:243)
    at sun.reflect.NativeMethodAccessorImpl.invoke0 (Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke (NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke (DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke (Method.java:498)
    at org.eclipse.equinox.launcher.Main.invokeFramework (Main.java:673)
    at org.eclipse.equinox.launcher.Main.basicRun (Main.java:610)
    at org.eclipse.equinox.launcher.Main.run (Main.java:1519)

```

Related issues:

Copied to Edit - feature request #7680: Refactor TaxonNodeDetailElement

Closed

08/24/2018

Associated revisions

Revision 9d74201a - 08/24/2018 11:26 AM - Patrick Plitzner

ref #7679 Temporary hotfix for NPE in taxon node wizard

Revision 9e01ec16 - 08/24/2018 11:32 AM - Patrick Plitzner

ref #7679 Temporary hotfix for NPE in taxon node wizard

Revision 22daad3e - 08/24/2018 11:35 AM - Patrick Plitzner

ref #7679 Change order of UI elements

Revision 17acac26 - 08/24/2018 11:52 AM - Patrick Plitzner

ref #7679 Change order of UI elements

Revision 46f913aa - 08/27/2018 03:25 PM - Patrick Plitzner

ref #7679 Evaluate DB prefs for publish flag

Revision ff687253 - 08/28/2018 08:51 AM - Patrick Plitzner

ref #7679 Evaluate DB prefs for publish flag

History

#1 - 08/23/2018 05:28 PM - Andreas Müller

- Status changed from New to In Progress

- Priority changed from New to Highest

- Severity changed from normal to critical

#2 - 08/24/2018 08:28 AM - Patrick Plitzner

- Assignee changed from Katja Luther to Patrick Plitzner

#3 - 08/24/2018 08:36 AM - Patrick Plitzner

When entering data in "Detail" an exception is thrown with every key stroke

```
login : admin
editor version : 5.3.0.qualifier
server : localhost (localhost-dev)
schema version : 5.0.0.0.20180514
os : Linux 4.15.0-32-generic amd64
java : 1.8.0_121
java.lang.ClassCastException: eu.etaxonomy.cdm.model.taxon.Classification cannot be cast to eu.etaxonomy.cdm.m
odel.taxon.TaxonNode
    at eu.etaxonomy.taxeditor.ui.section.classification.TaxonNodeDetailElement.handleEvent (TaxonNodeDetailElem
ent.java:245)
    at eu.etaxonomy.taxeditor.ui.section.AbstractCdmDetailElement.propertyChange (AbstractCdmDetailElement.java
:227)
    at eu.etaxonomy.taxeditor.ui.element.AbstractCdmFormElement.firePropertyChangeEvent (AbstractCdmFormElement
.java:238)
    at eu.etaxonomy.taxeditor.ui.element.TextWithLabelElement.modifyText (TextWithLabelElement.java:188)
    at org.eclipse.swt.widgets.TypedListener.handleEvent (TypedListener.java:180)
    at org.eclipse.swt.widgets.EventTable.sendEvent (EventTable.java:84)
    at org.eclipse.swt.widgets.Display.sendEvent (Display.java:5227)
    at org.eclipse.swt.widgets.Widget.sendEvent (Widget.java:1340)
    at org.eclipse.swt.widgets.Display.runDeferredEvents (Display.java:4561)
    at org.eclipse.swt.widgets.Display.readAndDispatch (Display.java:4151)
    at org.eclipse.jface.window.Window.runEventLoop (Window.java:818)
    at org.eclipse.jface.window.Window.open (Window.java:794)
    at eu.etaxonomy.taxeditor.navigation.navigator.e4.handler.NewTaxonNodeHandlerE4.execute (NewTaxonNodeHandle
rE4.java:56)
    at sun.reflect.NativeMethodAccessorImpl.invoke0 (Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke (NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke (DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke (Method.java:498)
    at org.eclipse.e4.core.internal.di.MethodRequestor.execute (MethodRequestor.java:55)
    at org.eclipse.e4.core.internal.di.InjectorImpl.invokeUsingClass (InjectorImpl.java:282)
    at org.eclipse.e4.core.internal.di.InjectorImpl.invoke (InjectorImpl.java:264)
    at org.eclipse.e4.core.contexts.ContextInjectionFactory.invoke (ContextInjectionFactory.java:132)
    at org.eclipse.e4.core.commands.internal.HandlerServiceHandler.execute (HandlerServiceHandler.java:152)
    at org.eclipse.core.commands.Command.executeWithChecks (Command.java:494)
    at org.eclipse.core.commands.ParameterizedCommand.executeWithChecks (ParameterizedCommand.java:488)
    at org.eclipse.e4.core.commands.internal.HandlerServiceImpl.executeHandler (HandlerServiceImpl.java:210)
    at org.eclipse.e4.ui.workbench.renderers.swt.HandledContributionItem.executeItem (HandledContributionItem.j
ava:433)
    at org.eclipse.e4.ui.workbench.renderers.swt.AbstractContributionItem.handleWidgetSelection (AbstractContri
butionItem.java:454)
    at org.eclipse.e4.ui.workbench.renderers.swt.AbstractContributionItem$3.handleEvent (AbstractContributionIt
em.java:482)
    at org.eclipse.swt.widgets.EventTable.sendEvent (EventTable.java:84)
    at org.eclipse.swt.widgets.Display.sendEvent (Display.java:5227)
    at org.eclipse.swt.widgets.Widget.sendEvent (Widget.java:1340)
    at org.eclipse.swt.widgets.Display.runDeferredEvents (Display.java:4561)
    at org.eclipse.swt.widgets.Display.readAndDispatch (Display.java:4151)
    at org.eclipse.e4.ui.internal.workbench.swt.PartRenderingEngine$4.run (PartRenderingEngine.java:1121)
    at org.eclipse.core.databinding.observable.Realm.runWithDefault (Realm.java:336)
    at org.eclipse.e4.ui.internal.workbench.swt.PartRenderingEngine.run (PartRenderingEngine.java:1022)
    at org.eclipse.e4.ui.internal.workbench.E4Workbench.createAndRunUI (E4Workbench.java:150)
    at org.eclipse.ui.internal.Workbench$5.run (Workbench.java:693)
    at org.eclipse.core.databinding.observable.Realm.runWithDefault (Realm.java:336)
    at org.eclipse.ui.internal.Workbench.createAndRunWorkbench (Workbench.java:610)
    at org.eclipse.ui.PlatformUI.createAndRunWorkbench (PlatformUI.java:148)
    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 (EclipseAppLauncher.java:134
```

```
)
at org.eclipse.core.runtime.internal.adaptor.EclipseAppLauncher.start (EclipseAppLauncher.java:104)
at org.eclipse.core.runtime.adaptor.EclipseStarter.run (EclipseStarter.java:388)
at org.eclipse.core.runtime.adaptor.EclipseStarter.run (EclipseStarter.java:243)
at sun.reflect.NativeMethodAccessorImpl.invoke0 (Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke (NativeMethodAccessorImpl.java:62)
at sun.reflect.DelegatingMethodAccessorImpl.invoke (DelegatingMethodAccessorImpl.java:43)
at java.lang.reflect.Method.invoke (Method.java:498)
at org.eclipse.equinox.launcher.Main.invokeFramework (Main.java:673)
at org.eclipse.equinox.launcher.Main.basicRun (Main.java:610)
at org.eclipse.equinox.launcher.Main.run (Main.java:1519)
at org.eclipse.equinox.launcher.Main.main (Main.java:1492)
```

#4 - 08/24/2018 10:26 AM - Patrick Plitzner

- Subject changed from *Can't create root child in classificatoin* to *Can't create root child in classificatoin - Refactor TaxonNodeDetailElement*

While investigating this issue I realized that the *NewTaxonNodeWizard* does not work like all the other "new" wizards.

Usually the sequence is as follows:

1. In ***AbstractNewEntityWizard.createNewEntity()*** a new instance of the class is created.

```
protected Reference createNewEntity() {
    return ReferenceFactory.newGeneric();
}
```

2. The wizard page returns a detail element for the newly created entity via ***AbstractCdmEntityWizardPage.getDetailElement()*** This is the same element as used in the *DetailsView*.

3. The ***handleEvent()*** method listens to editing changes in the detail element and stores the parameters to the newly created entity

```
public void handleEvent(Object eventSource) {
    if (eventSource == combo_referenceType) {
        getEntity().setType(combo_referenceType.getSelection());
    }
}
```

4. When closing the wizard ***AbstractNewEntityWizard.saveEntity()*** is invoked

```
protected void saveEntity() {
    CdmStore.getService(IReferenceService.class).save(getEntity());
}
```

- The new taxon node wizard does not create a new entity but uses the current selection.
- This is why all these exception are thrown when creating a root child because the entity used in the wizard is the classification and not the new taxon node as it should be.
- Only during *saveEntity()* a new taxon instance is created (should be done ***createNewEntity()***) and all the UI parameter fields are stored to the taxon (should be done in ***handleEvent()***)

#5 - 08/24/2018 10:28 AM - Patrick Plitzner

- Copied to feature request #7680: Refactor TaxonNodeDetailElement added

#6 - 08/24/2018 10:28 AM - Patrick Plitzner

I created a new ticket for the redesign -> [#7680](#)

#7 - 08/27/2018 12:17 PM - Katja Luther

- Target version changed from Release 5.3 to Release 5.2

#8 - 08/27/2018 01:30 PM - Andreas Müller

- Subject changed from Can't create root child in classificatoin - Refactor TaxonNodeDetailElement to NPE when creating root child in classificatoin

- % Done changed from 0 to 40

Can't we put this to resolved already?

#9 - 08/27/2018 01:49 PM - Patrick Plitzner

- Status changed from In Progress to Resolved

- Assignee changed from Patrick Plitzner to Andreas Müller

- % Done changed from 40 to 50

Andreas Müller wrote:

Can't we put this to resolved already?

As we already moved it to 5.2 because of the hotfix we could also just close. Or have you not yet reviewed it?

#10 - 08/27/2018 03:00 PM - Andreas Müller

- Status changed from Resolved to Feedback

- Assignee changed from Andreas Müller to Patrick Plitzner

The setting of the publish flag does not yet work in this case. It should either be "true" (but currently is "false") or should use admin preferences. Preference "inherit" from parent should set the flag to "true" as Classification as parent has no publish flag but is always public.

#11 - 08/27/2018 03:25 PM - Patrick Plitzner

- Status changed from Feedback to Resolved

- Assignee changed from Patrick Plitzner to Andreas Müller

- % Done changed from 50 to 70

#12 - 08/27/2018 07:17 PM - Andreas Müller

- Subject changed from NPE when creating root child in classificatoin to NPE when creating root child in classification

#13 - 08/27/2018 07:33 PM - Andreas Müller

- Status changed from Resolved to Feedback

- Assignee changed from Andreas Müller to Patrick Plitzner

Looks like commit 46f913aa went only into the hotfix branch but needs to be committed to both branches.

Can't test this way as my IDE currently does not work.

#14 - 08/28/2018 08:52 AM - Patrick Plitzner

- *Assignee changed from Patrick Plitzner to Andreas Müller*

Andreas Müller wrote:

Looks like commit 46f913aa went only into the hotfix branch but needs to be committed to both branches.

Can't test this way as my IDE currently does not work.

I cherry-picked it into develop

#15 - 08/28/2018 10:51 AM - Andreas Müller

- *Status changed from Feedback to Closed*

- *Assignee changed from Andreas Müller to Patrick Plitzner*

- *% Done changed from 70 to 100*

OK, seems to work now.