

## EDIT - bug #9095

### LazyInitializationException (LIE) in portal/description/distributionInfoFor/{uuid}

06/25/2020 08:36 AM - Andreas Kohlbecker

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Highest	<b>Due date:</b>	
<b>Assignee:</b>	Andreas Kohlbecker	<b>% Done:</b>	100%
<b>Category:</b>	cdmlib-remote	<b>Estimated time:</b>	0:00 hour
<b>Target version:</b>	Release 5.16	<b>Found in Version:</b>	
<b>Severity:</b>	critical		
<b>Description</b>			
test links:			
<ul style="list-style-type: none"><li><a href="https://europusmed.org/cdm_dataportal/taxon/7c8012f2-bbda-4e51-83cd-39a06994098c">https://europusmed.org/cdm_dataportal/taxon/7c8012f2-bbda-4e51-83cd-39a06994098c</a></li><li><a href="http://cichorieae.e-taxonomy.net/portal/cdm_dataportal/taxon/5d65f017-0c23-43e4-888d-9649de50dd45">http://cichorieae.e-taxonomy.net/portal/cdm_dataportal/taxon/5d65f017-0c23-43e4-888d-9649de50dd45</a></li></ul>			
e.g.:			
08:30:33.732 [cichorieae] [qtp527446182-2483] INFO e.e.c.r.c.BaseListController - doGetDistributionInfo() - GET: /cichorieae/portal/description/distributionInfoFor/5d65f017-0c23-43e4-888d-9649de50dd45.json?recipe=EuroPlusMed&statusOrderPreference=1&subAreaPreference=1&hiddenAreaMarkerType=&part=mapUriParams&part=tree&omitLevels=38efa5fd-d7f0-451c-9de9-e6cce41e2225			
Caused by: net.sf.json.JSONException: org.hibernate.LazyInitializationException: failed to lazily initialize a collection of role: eu.etaxonomy.cdm.model.agent.Team.teamMembers, could not initialize proxy - no Session			
at net.sf.json.JSONObject._fromBean(JSONObject.java:692)			
at net.sf.json.JSONObject.fromObject(JSONObject.java:172)			
at eu.etaxonomy.cdm.remote.json.processor.bean.HibernateProxyBeanProcessor.processBean(HibernateProxyBeanProcessor.java:28)			
at net.sf.json.JSONObject._fromBean(JSONObject.java:676)			
at net.sf.json.JSONObject.fromObject(JSONObject.java:172)			
at net.sf.json.AbstractJSON._processValue(AbstractJSON.java:274)			
at net.sf.json.JSONObject._processValue(JSONObject.java:2655)			
at net.sf.json.JSONObject.processValue(JSONObject.java:2721)			
at net.sf.json.JSONObject.element(JSONObject.java:1786)			
at eu.etaxonomy.cdm.remote.json.processor.bean.AbstractBeanProcessor.processBean(AbstractBeanProcessor.java:149)			
at net.sf.json.JSONObject._fromBean(JSONObject.java:676)			
at net.sf.json.JSONObject.fromObject(JSONObject.java:172)			
at eu.etaxonomy.cdm.remote.json.processor.bean.HibernateProxyBeanProcessor.processBean(HibernateProxyBeanProcessor.java:28)			
at net.sf.json.JSONObject._fromBean(JSONObject.java:676)			
at net.sf.json.JSONObject.fromObject(JSONObject.java:172)			
at net.sf.json.AbstractJSON._processValue(AbstractJSON.java:274)			
at net.sf.json.JSONObject._processValue(JSONObject.java:2655)			
at net.sf.json.JSONObject.processValue(JSONObject.java:2721)			
at net.sf.json.JSONObject.setInternal(JSONObject.java:2736)			
at net.sf.json.JSONObject.setValue(JSONObject.java:1424)			
at net.sf.json.JSONObject.defaultBeanProcessing(JSONObject.java:765)			
at net.sf.json.JSONObject._fromBean(JSONObject.java:699)			
at net.sf.json.JSONObject.fromObject(JSONObject.java:172)			
at net.sf.json.AbstractJSON._processValue(AbstractJSON.java:274)			
at net.sf.json.JSONArray._processValue(JSONArray.java:2513)			
at net.sf.json.JSONArray.processValue(JSONArray.java:2538)			
at net.sf.json.JSONArray.addValue(JSONArray.java:2525)			
at net.sf.json.JSONArray._fromCollection(JSONArray.java:1056)			
at net.sf.json.JSONArray.fromObject(JSONArray.java:123)			
at net.sf.json.AbstractJSON._processValue(AbstractJSON.java:240)			
at net.sf.json.JSONObject._processValue(JSONObject.java:2655)			
at net.sf.json.JSONObject.processValue(JSONObject.java:2721)			



```

at net.sf.json.JSONObject._fromBean(JSONObject.java:699)
at net.sf.json.JSONObject.fromObject(JSONObject.java:172)
at net.sf.json.AbstractJSON._processValue(AbstractJSON.java:274)
at net.sf.json.JSONObject._processValue(JSONObject.java:2655)
at net.sf.json.JSONObject.processValue(JSONObject.java:2721)
at net.sf.json.JSONObject.setInternal(JSONObject.java:2736)
at net.sf.json.JSONObject.setValue(JSONObject.java:1424)
at net.sf.json.JSONObject.defaultBeanProcessing(JSONObject.java:765)
at net.sf.json.JSONObject._fromBean(JSONObject.java:699)
at net.sf.json.JSONObject.fromObject(JSONObject.java:172)
at eu.etaxonomy.cdm.remote.view.JsonView.render(JsonView.java:128)
at eu.etaxonomy.cdm.remote.view.JsonView.render(JsonView.java:188)
at org.springframework.web.servlet.DispatcherServlet.render(DispatcherServlet.java:1243)
at org.springframework.web.servlet.DispatcherServlet.processDispatchResult(DispatcherServlet.java:1027)
at org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:971)
)
at org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:893)
at org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:969)
... 80 common frames omitted
Caused by: org.hibernate.LazyInitializationException: failed to lazily initialize a collection of
role: eu.etaxonomy.cdm.model.agent.Team.teamMembers, could not initialize proxy - no Session
at org.hibernate.collection.internal.AbstractPersistentCollection.throwLazyInitializationException(AbstractPersistentCollection.java:567)
at org.hibernate.collection.internal.AbstractPersistentCollection.withTemporarySessionIfNeeded(AbstractPersistentCollection.java:205)
at org.hibernate.collection.internal.AbstractPersistentCollection.initialize(AbstractPersistentCollection.java:546)
at org.hibernate.collection.internal.AbstractPersistentCollection.read(AbstractPersistentCollection.java:133)
at org.hibernate.collection.internal.PersistentList.iterator(PersistentList.java:132)
at eu.etaxonomy.cdm.strategy.cache.agent.TeamDefaultCacheStrategy.getNomenclaturalTitle(TeamDefaultCacheStrategy.java:82)
at eu.etaxonomy.cdm.strategy.cache.agent.TeamDefaultCacheStrategy.getNomenclaturalTitle(TeamDefaultCacheStrategy.java:1)
at eu.etaxonomy.cdm.model.agent.Team.getNomenclaturalTitle(Team.java:270)
at eu.etaxonomy.cdm.remote.json.processor.bean.TeamOrPersonBaseBeanProcessor.processBeanSetCondStep(TeamOrPersonBaseBeanProcessor.java:40)
at eu.etaxonomy.cdm.remote.json.processor.bean.TeamOrPersonBaseBeanProcessor.processBeanSetCondStep(TeamOrPersonBaseBeanProcessor.java:22)
at eu.etaxonomy.cdm.remote.json.processor.bean.AbstractBeanProcessor.processBean(AbstractBeanProcessor.java:167)
at net.sf.json.JSONObject._fromBean(JSONObject.java:676)
... 190 common frames omitted

```

**Related issues:**

Has duplicate EDIT - bug #9096: LazyInitializationException (LIE) in Descript..

**Duplicate**

**Associated revisions**

**Revision af4969c8 - 06/25/2020 12:22 PM - Andreas Kohlbecker**

ref #9095, ref #9096 catching LIEs at Team.members in TeamOrPersonBaseBeanProcessor to handle problems potentially originating from bug ref #7331

**Revision a8905b5d - 06/25/2020 05:40 PM - Andreas Kohlbecker**

reverting commit last for ref #9095, ref #9096, ref #7331 for a better solution

**Revision d2a8e3bf - 06/30/2020 03:11 PM - Andreas Kohlbecker**

ref #9095 falling back to explicite bean property initialization for TeamOrPersonBase

**Revision b6bea419 - 06/30/2020 03:37 PM - Andreas Kohlbecker**

ref #9095 improving AdvancedBeanInitializer performance by using Optional instead of Exceptions

**History**

#### #1 - 06/25/2020 09:08 AM - Andreas Kohlbecker

- Related to bug #9096: LazyInitializationException (LIE) in DescriptionElementListController.getDescriptionElementsForTaxon() added

#### #2 - 06/25/2020 11:59 AM - Andreas Kohlbecker

it appends at DistributionInfoDTO.tree.children.children.children.data.sources.citation.authorship.nomenclaturalTitle.teamMembers

#### #3 - 06/25/2020 12:13 PM - Andreas Kohlbecker

this problem is potentially highly related to [#7331](#) since the init strategy includes the sources.citation.authorship:

[DescriptionElementListPortalController.java]

```
protected static final List<String> DESCRIPTION_ELEMENT_INIT_STRATEGY = Arrays.asList(new String []{
    "$",
    "annotations",
    "markers",
    "stateData.$",
    "statisticalValues.*",
    "sources.citation.authorship",
    "sources.nameUsedInSource",
    "multilanguageText",
    "media",
    "name.$",
    "name.rank.representations",
    "name.status.type.representations",
    "taxon2.name"
});
```

#### #4 - 06/25/2020 12:26 PM - Andreas Kohlbecker

- Related to bug #7331: AdvancedBeanInitializer fails to initialize properties of preinitialized beans in the graph in very special situations added

#### #5 - 06/25/2020 01:05 PM - Andreas Kohlbecker

- Related to deleted (bug #9096: LazyInitializationException (LIE) in DescriptionElementListController.getDescriptionElementsForTaxon())

#### #6 - 06/25/2020 01:05 PM - Andreas Kohlbecker

- Has duplicate bug #9096: LazyInitializationException (LIE) in DescriptionElementListController.getDescriptionElementsForTaxon() added

#### #7 - 06/25/2020 01:07 PM - Andreas Kohlbecker

- Description updated

#### #8 - 06/25/2020 01:07 PM - Andreas Kohlbecker

- Description updated

#### #9 - 06/25/2020 01:08 PM - Andreas Kohlbecker

- Status changed from New to Resolved

- % Done changed from 0 to 50

solved by catching the exception in the TeamOrPersonBaseBeanProcessor since a real solution ([#7331](#)) may need some more time

#### #10 - 06/25/2020 05:41 PM - Andreas Kohlbecker

- Related to deleted (bug #7331: AdvancedBeanInitializer fails to initialize properties of preinitialized beans in the graph in very special situations)

#### #11 - 06/25/2020 05:57 PM - Andreas Kohlbecker

the cause for this bug was not related to [#7331](#) but is caused by an unexpected behavior of AdvancedBeanInitializer.preparePropertyValueForBulkLoadOrStore(BeanInitNode node, Object parentBean, String param, Object propertyValue) which always only returns TeamOrPersonBase making Team and Person indistinguishable in the TeamAutoInitializer.

Now that this is solved initialization strategies for authorship.teamMembers and authorship.\$ are most probably dispensible and should be removed or truncated: Candidates are in

- cdmlib: ReferenceEllipsisFormatter, DescriptionListPortalController, NameCatalogueController, DescriptionPortalController.java (3 matches), NameController.java (5 matches), NamePortalController.java (4 matches), ReferenceController.java (2 matches), TypeDesignationPortalController.java (4 matches)
- cdm-vaadin:RegistrationWorkflowService, SpecimenTypeDesignationWorkingSetServiceImpl, DistributionStatusQuery, DistributionTablePresenter,

**#12 - 06/25/2020 06:22 PM - Andreas Kohlbecker**

moreover the whole reference object as serialized in webservice responses can be simplified a lot. The authorship and authorship.teamMembers are not use anywhere in the portal. We could actually return very simple ReferenceDTOs instead. required fields only are:

```
uuid  
titleCache  
doi  
uri  
type
```

**#13 - 06/30/2020 12:25 PM - Andreas Kohlbecker**

- Status changed from Resolved to In Progress
- % Done changed from 50 to 40

the last [a8905b5d](#) also causes Problems since TeamAutoInitializer needs to distinguish Team and Person to avoid in order to avoid org.hibernate.QueryException: could not resolve property: teamMembers of: eu.etaxonomy.cdm.model.agent.Person

The root casue of all of this seems to be ((HibernateProxy)propertyValue).getHibernateLazyInitializer().getPersistentClass(); in AdvancedBeanInitializer.preparePropertyValueForBulkLoadOrStore(BeanInitNode node, Object parentBean, String param, Object propertyValue) which always only returns TeamOrPersonBase

**#14 - 06/30/2020 03:46 PM - Andreas Kohlbecker**

- Status changed from In Progress to Resolved
- Target version changed from Release 5.18 to Release 5.16
- % Done changed from 40 to 60

**#15 - 06/30/2020 04:01 PM - Andreas Kohlbecker**

- Status changed from Resolved to Closed
- % Done changed from 60 to 100