

## EDIT - feature request #10474

### Improve occurrence loading for taxon page

02/16/2024 09:56 AM - Andreas Müller

<b>Status:</b>	New	<b>Start date:</b>	
<b>Priority:</b>	Highest	<b>Due date:</b>	
<b>Assignee:</b>	Andreas Müller	<b>% Done:</b>	0%
<b>Category:</b>	cdmlib-remote	<b>Estimated time:</b>	0:00 hour
<b>Target version:</b>	Release 5.43		
<b>Severity:</b>	normal		
<b>Description</b>			
<p>This is strongly related to <a href="#">#10322</a>. There we already split SpecimenOrObservationBaseDTO and subtype DTOs into relatively pure DTOs and loader classes. But there are still a couple of issues left.</p> <ul style="list-style-type: none"><li>• <del>sort order for derivatives</del> =&gt; implemented for sort on the short label</li><li>• loading of the instances still partly takes place in the service classes, therefore some of the computing steps (computing summary label, boolean hasXXX values and updating the data after adding a derivative, ...) still takes place in the DTO but should be triggered by the loader class</li><li>• for map computation there is still a separate call to separate remote method taxonOccurrencesFor which internally does the call to the loader again. <del>We need some similar structure as distributionInfoFor</del> for which combines DTO base values as well as map parameters =&gt; wrapping occurrenceInfoDto implemented, but not yet including map parameters</li><li>• do load not via model objects</li><li>• adapt DTOs so that they work with jackson (see <a href="#">#note-5</a>, see also <a href="#">#6992</a>)</li><li>• remove all model classes from DTOs (...) =&gt; this is mostly done, are there still open issues?</li><li>• implement paging (exists for model objects in OccurrenceService.pageRootUnitsByAssociatedTaxon() maybe used in old derivate path view in dataportal and (without paging) in TaxEditor</li><li>• create <b>tests</b> for DTO loading</li></ul>			
<b>Related issues:</b>			
Related to EDIT - feature request #10322: Use DTOs for portal taxon page (cont.)		<b>In Progress</b>	
Related to EDIT - task #4911: improve performance of distributionInfoFor service		<b>Duplicate</b>	
Related to EDIT - task #3336: Improve overall dataportal page loading perform...		<b>In Progress</b>	
Related to EDIT - task #6992: Refactor and modernize REST web service API		<b>New</b>	

#### Associated revisions

##### Revision 5a55a49b - 02/16/2024 04:40 PM - Andreas Müller

ref #10322, ref #10472 remove model objects from specimenDTOs

##### Revision 9c26ef8c - 02/16/2024 05:02 PM - Andreas Müller

ref #10322, ref #10472 remove definiend terms and OccurrenceType from SpecimenOrObservationBaseDTO

##### Revision 2e032176 - 02/16/2024 06:46 PM - Andreas Müller

ref #10322, ref #10472 further remove model objects, use DerivationEvent and some cleanup

##### Revision 442de1ca - 02/16/2024 09:18 PM - Andreas Müller

ref #10322, ref #10474 cleanup fieldunit and improve data handling and comparison

##### Revision 5bbb8fa9 - 02/16/2024 09:37 PM - Andreas Müller

ref #10322, ref #10474 cleanup fieldunit and improve data handling and comparison (cont.)

##### Revision f38dafb0 - 02/16/2024 10:10 PM - Andreas Müller

ref #10322, ref #10474 adapt TaxEditor to gatheringStartDate

##### Revision d02a98ec - 02/16/2024 11:45 PM - Andreas Müller

ref #10322, ref #10474 add addAmplificationResultDTO, SingleReadDTO and PrimerDTO

**Revision 4a56085a - 02/17/2024 12:45 AM - Andreas Müller**

ref #10322, ref #10474 add DnaQualityDTO

**Revision 49c827a1 - 02/17/2024 01:27 AM - Andreas Müller**

ref #10322, ref #10474 handle contigFile

**Revision b176eec8 - 02/17/2024 07:57 AM - Andreas Müller**

ref #10322, ref #10474 fix recordBase handling

**Revision c0cc1fca - 02/17/2024 08:34 AM - Andreas Müller**

ref #10322, ref #10474 fix recordBase handling (cont.)

**Revision 1153770b - 02/17/2024 10:07 AM - Andreas Müller**

ref #10322, ref #10474 use timePeriod instead of gatheringStartDate in all occurrence context

**Revision 6018dbcf - 02/19/2024 01:33 PM - Andreas Müller**

ref #10322, ref #10474 remove not fully implemented specimen implementation from DTO for now

**Revision aaab437f - 02/21/2024 08:37 AM - Andreas Müller**

ref #10322, ref #10474 make SpecimenOrObservationBaseDTO.derivatives ordered

**Revision fac3e768 - 02/21/2024 10:55 AM - Andreas Müller**

ref #10322, ref #10474 order derivatives on short label

**Revision d2d5350c - 02/28/2024 11:34 AM - Andreas Müller**

ref #10322, #10474 add OccurrenceInfoDto

## History

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**#1 - 02/16/2024 09:56 AM - Andreas Müller**

- Related to feature request #10322: Use DTOs for portal taxon page (cont.) added

**#2 - 02/16/2024 09:56 AM - Andreas Müller**

- Related to task #4911: improve performance of distributionInfoFor service added

**#3 - 02/16/2024 09:57 AM - Andreas Müller**

- Related to task #3336: Improve overall dataportal page loading performance added

**#4 - 02/16/2024 11:26 AM - Andreas Müller**

- Description updated

**#5 - 02/16/2024 12:37 PM - Andreas Müller**

- Description updated

Joda time does not work with jackson yet:

```
Caused by: com.fasterxml.jackson.databind.exc.InvalidDefinitionException: Joda date/time type `org.joda.time.DateTime` not supported by default: add Module "com.fasterxml.jackson.datatype:jackson-datatype-joda" to enable handling (through reference chain: eu.etaxonomy.cdm.api.dto.portal.TaxonPageDto["rootSpecimens"]->java.util.ArrayList[0]->eu.etaxonomy.cdm.api.dto.FieldUnitDTO["derivatives"]->java.util.HashSet[0]->eu.etaxonomy.cdm.api.dto.DerivedUnitDTO["kindOfUnit"]->eu.etaxonomy.cdm.model.term.DefinedTerm["created"])
```

**#6 - 02/16/2024 12:38 PM - Andreas Müller**

- Description updated

**#7 - 02/17/2024 10:40 AM - Andreas Müller**

- Description updated

**#8 - 02/20/2024 03:11 PM - Andreas Müller**

- Description updated

**#9 - 02/20/2024 03:13 PM - Andreas Müller**

Test page is: [https://int.e-taxonomy.eu/dataportal/integration/reference/cdm\\_dataportal/taxon/d245083e-3bda-435f-9bb3-bdc2249ff23c/specimens](https://int.e-taxonomy.eu/dataportal/integration/reference/cdm_dataportal/taxon/d245083e-3bda-435f-9bb3-bdc2249ff23c/specimens)

Test webservice is:

[https://int.e-taxonomy.eu/cdmserver/integration\\_reference/portal/taxon/d245083e-3bda-435f-9bb3-bdc2249ff23c/rootUnitDTOs.json?taxOccRelFilter=IA%2CTD%2CDET%2CCDET](https://int.e-taxonomy.eu/cdmserver/integration_reference/portal/taxon/d245083e-3bda-435f-9bb3-bdc2249ff23c/rootUnitDTOs.json?taxOccRelFilter=IA%2CTD%2CDET%2CCDET)

**#10 - 02/28/2024 11:20 AM - Andreas Müller**

- Description updated

**#11 - 02/28/2024 11:37 AM - Andreas Müller**

- Description updated

**#12 - 03/28/2024 02:48 PM - Andreas Müller**

- Description updated

**#13 - 03/28/2024 02:48 PM - Andreas Müller**

- Related to task #6992: Refactor and modernize REST web service API added