

## EDIT - task #9253

### revise OccurrenceServiceImpl.findFieldUnitDTO(..)

10/15/2020 11:09 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	<b>Estimated time:</b>	0:00 hour
<b>Target version:</b>	Release 5.19		
<b>Severity:</b>	normal		
<b>Description</b>			
<p>This intended function of FieldUnitDTO OccurrenceServiceImpl.findFieldUnitDTO(DerivateDTO derivedUnitDTO, Collection&lt;FieldUnitDTO&gt; fieldUnits, HashMap&lt;UUID, DerivateDTO&gt; alreadyCollectedSpecimen) is quite unclear, not only because the documentation is missing (<a href="#">#8458</a>), but also since the method is confuses reagarding the method signature: All detected fieldunits are added to the Collection&lt;FieldUnitDTO&gt; fieldUnits passed as parameter but one of the field units is returned. From the description of <a href="#">#8423</a> supports the impression that this method covers two distinct functionalities at the same.</p> <p>TODO:</p> <ul style="list-style-type: none"><li>• refactor the method to make its clarify its purpose and concerns. - <b>DONE</b></li><li>• revise commented code and clean up</li><li>• remove the init strategy (first FIXME in code) - <b>DONE</b></li><li>• allow for walking multiple origin paths (second FIXME in code) ---&gt; <a href="#">#9430</a></li><li>• The methods OccurrenceServiceImpl._findFieldUnitDTO and OccurrenceServiceImpl.findFieldUnitDTO() are operating on DTOs. This causes a computation overhead which could be significant in cases where intermediate derivation events exists. The creation of the DTOs is quite expensive since they are relatively complex objects for which quite some entity initialization is necessary. It would be better to do the search for field units purely on the entity level and to create DTOs in a final step only for those entities which are needed for the out put or response. ---&gt; <a href="#">#9431</a></li></ul>			
<b>Related issues:</b>			
Related to EDIT - task #8458: document FieldUnitDTOOccurrenceServiceImpl.find...		<b>Closed</b>	
Related to EDIT - bug #8423: OccurrenceServiceImpl.findFieldUnitDTO() fails t...		<b>Closed</b>	
Related to EDIT - task #9252: Harmonize SpecimenOrObservationBase related DTOs		<b>Closed</b>	
Related to EDIT - task #8419: Harmonization of the different specimen represe...		<b>In Progress</b>	
Related to EDIT - bug #9257: revise filtering in OccurrenceServiceImpl.assemb...		<b>Closed</b>	
Related to EDIT - feature request #7704: Dataportal specimen table should be ...		<b>Closed</b>	
Related to EDIT - bug #9556: occurrence/{uuid}/fieldUnitDTOs web service adds...		<b>Closed</b>	
Copied to EDIT - task #9430: revise OccurrenceServiceImpl._findRootUnitDTO(.....		<b>New</b>	
Copied to EDIT - task #9431: OccurrenceServiceImpl._findRootUnitDTO(..)		<b>New</b>	

### Associated revisions

#### Revision ddef3633 - 10/15/2020 11:25 AM - Andreas Kohlbecker

ref #9253 todo comment

#### Revision b1a675d1 - 10/15/2020 05:40 PM - Andreas Kohlbecker

ref #8423 ref #9253, ref #9252 fixing duplicate addition of DerivedUnitDTOs

#### Revision 5d299395 - 10/15/2020 09:34 PM - Andreas Kohlbecker

ref #9253 cleaning up caller of OccurrenceServiceImpl.findFieldUnitDTO(..)

#### Revision ba48bce0 - 11/12/2020 04:44 PM - Andreas Kohlbecker

ref #9253 removing initstrategy from DTO service method

#### Revision 398413cc - 11/12/2020 05:52 PM - Andreas Kohlbecker

ref #9253 removing initstrategy from DTO service method - cleaning up

## History

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### #1 - 10/15/2020 11:09 AM - Andreas Kohlbecker

- Description updated

### #2 - 10/15/2020 11:09 AM - Andreas Kohlbecker

- Related to task #8458: document `FieldUnitDTOccurrenceServiceImpl.findFieldUnitDTO()` added

### #3 - 10/15/2020 11:10 AM - Andreas Kohlbecker

- Related to bug #8423: `OccurrenceServiceImpl.findFieldUnitDTO()` fails to merge derivation paths when a `FieldUnit` has two derivatives added

### #4 - 10/15/2020 11:11 AM - Andreas Kohlbecker

- Related to task #9252: Harmonize `SpecimenOrObservationBase` related DTOs added

### #5 - 10/15/2020 11:11 AM - Andreas Kohlbecker

- Related to task #8419: Harmonization of the different specimen representations added

### #6 - 10/15/2020 12:17 PM - Andreas Kohlbecker

- Related to bug #9257: revise filtering in `OccurrenceServiceImpl.assembleFieldUnitDTO(FieldUnit fieldUnit)` by `SpecimenOrObservationType.PreservedSpecimen` added

### #7 - 10/16/2020 12:03 PM - Andreas Kohlbecker

- % Done changed from 0 to 40

### #8 - 10/16/2020 12:03 PM - Andreas Kohlbecker

- Status changed from New to In Progress

### #9 - 11/30/2020 01:19 PM - Andreas Kohlbecker

- Description updated

### #10 - 11/30/2020 01:24 PM - Andreas Kohlbecker

there are two open FIXMEs in the method:

```
// FIXME defining propertyPaths inside of transactional service method makes no sense. see also #9253
propertyPaths.add("descriptions.elements.media.title");
propertyPaths.add("kindOfUnit");
propertyPaths.add("derivedFrom");
```

```
// FIXME allow handling multiple originals
SpecimenOrObservationBase<?> original = originals.get(0);
```

### #11 - 12/01/2020 03:07 PM - Andreas Kohlbecker

- Target version changed from Release 5.18 to Release 5.19

more TODO:

revise commented code and clean up

### #12 - 12/01/2020 03:47 PM - Andreas Kohlbecker

.. and another one:

TODO: The methods `OccurrenceServiceImpl._findFieldUnitDTO` and `OccurrenceServiceImpl.findFieldUnitDTO()` are operating on DTOs. This causes a computation overhead which could be significant in cases where intermediate derivation events exists. The creation of the DTOs is quite expensive since they are relatively complex objects for which quite some entity initialization is necessary. It would be better to do the search for field units purely on the entity level and to create DTOs in a final step only for those entities which are needed for the out put or response.

### #13 - 12/01/2020 03:50 PM - Andreas Kohlbecker

- Description updated

updating description with latest TODOs

**#14 - 01/18/2021 11:53 AM - Andreas Kohlbecker**

- Related to feature request #7704: Dataportal specimen table should be able to show DerivedUnits without a FieldUnit added

**#15 - 01/25/2021 07:23 PM - Andreas Kohlbecker**

- Status changed from In Progress to Resolved

possibly solved now

**#16 - 01/29/2021 11:03 AM - Andreas Kohlbecker**

- Copied to task #9430: revise OccurrenceServiceImpl.\_findRootUnitDTO(..) supports multiple origin paths added

**#17 - 01/29/2021 11:04 AM - Andreas Kohlbecker**

- Description updated

**#18 - 01/29/2021 11:07 AM - Andreas Kohlbecker**

- Copied to task #9431: OccurrenceServiceImpl.\_findRootUnitDTO(..) added

**#19 - 01/29/2021 11:09 AM - Andreas Kohlbecker**

- Description updated

- Status changed from Resolved to Closed

- % Done changed from 40 to 100

**#20 - 03/26/2021 12:16 PM - Andreas Kohlbecker**

- Related to bug #9556: occurrence/{uuid}/fieldUnitDTOs web service adds duplicate units to response added