

## EDIT - bug #6311

### Refactor IdentifiableEntity.compareTo method

01/05/2017 03:22 PM - Andreas Müller

<b>Status:</b>	Rejected	<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	<b>Estimated time:</b>	0:00 hour
<b>Target version:</b>	Release 4.6	<b>Found in Version:</b>	
<b>Severity:</b>	normal		
<b>Description</b> The IdentifiableEntity.compareTo method needs to be updated.  First of all I added the test of equality of the uuids.  Next step would be the problem if the name of two taxa is the same and the sec is the same (for example both taxa don't have a sec ref) the method would return 0, but this should happen only if the taxa are really equal. Normaly this should not happen but may be the last comparison should be a comparison of the created or updated date?			
<b>Related issues:</b> Related to EDIT - feature request #922: Implement compareTo method in Identif... Copied from EDIT - task #4232: Check all Comparators for fulfilling the Compa...			
			<b>Closed</b>
			<b>Closed</b>

#### Associated revisions

##### Revision dfc40f67 - 02/02/2017 03:00 PM - Andreas Müller

fix #6311 move compareToEntity method to TaxonName and TaxonBase classes and refactor

##### Revision 44e2abe8 - 02/02/2017 04:05 PM - Andreas Müller

ref #6311 further refactoring for compareToEntity

##### Revision ae3b8a5d - 02/02/2017 04:35 PM - Andreas Müller

ref #922 and #6311 javadoc

#### History

##### #1 - 01/05/2017 03:22 PM - Andreas Müller

- Copied from task #4232: Check all Comparators for fulfilling the Comparator contract added

##### #2 - 02/02/2017 01:27 PM - Andreas Müller

- Status changed from New to In Progress
- Assignee changed from Katja Luther to Andreas Müller
- Target version changed from Reviewed Next Major Release to Release 4.6

##### #3 - 02/02/2017 03:00 PM - Andreas Müller

- Status changed from In Progress to Resolved
- % Done changed from 0 to 50

Applied in changeset [cdmlib|dfc40f673035647ff6af03097229edd1e7712222](#).

##### #4 - 02/02/2017 04:13 PM - Andreas Müller

- Related to feature request #922: Implement compareTo method in IdentifiableEntity properly added

##### #5 - 02/02/2017 04:30 PM - Andreas Müller

- Status changed from Resolved to In Progress
- Assignee changed from Andreas Müller to Katja Luther

- % Done changed from 50 to 0

The 2 fixes dfc40f67 and 44e2abe8 primarily fixed [#922](#) and not THIS ticket.

However, during this process we realized that `IdentifiableEntity.compareTo` does not implement `Comparable.compareTo` and therefore does not necessarily need to fulfill its contract.

Also with the refactoring into both subclasses using the uuid as final decision is critical as `TaxonBase.compareToTaxon` uses `TaxonNameBase.compareToName` now and expects a 0 result if the names are equal on the cache level.

Same applies for the mentioned requirement that `compareToX` should never return 0 and use e.g. date instead for sorting. Defined sorting with no equalness we should leave to Comparators and `Comparable.compareTo`. Here, users of the method sometimes even expect return value 0.

Therefore I suggest that we should close this ticket as won't fix or maybe better we still include a better handling for protected titleCaches in case of `TaxonBase` but leave the rest as it is.

**#6 - 02/07/2017 11:48 AM - Katja Luther**

- Status changed from *In Progress* to *Rejected*

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

Close the ticket as we moved the methods to `TaxonNameBase` and `TaxonBase` and the `compareToX` methods do not implement the `Comparable.compareTo` method.