

EDIT - bug #8638

Session behavior not deterministic

10/31/2019 12:17 PM - Andreas Müller

Status:	New	Start date:	
Priority:	Highest	Due date:	
Assignee:	Katja Luther	% Done:	0%
Category:	taxeditor	Estimated time:	0:00 hour
Target version:	Unassigned CDM tickets	Found in Version:	
Severity:	critical		
Description			
<p>It seems that the behavior of the session cache handling is not deterministic. I did exchange a name for a taxon by another name. This sometimes resulted in a multiple representation exception for the author of the nomenclatural reference (of both names, old and new name had the same nom.ref.) which was at the same time the combination author of the new name (the old name had another combination author record attached).</p> <p>I did this 3x always waiting some longer time between actions to make sure it is not a problem of unfinished (asynchronous) actions. Afterwards I inspected the session via session view. The result: I did not always get the same number of objects in the session (sometimes 36, sometimes 38) but more important doing it 3x I got 3 different Debug Informations when using "Inspect Active Session". See the 3 versions below.</p> <p>With the last version, having line</p> <pre>- ?authorship[Person#4132].nomenclaturalReference[Reference#33035].name[TaxonName#132501].taxon[Taxon#165205].[TaxonNode#62455]"</pre> <p>the multiple representations exception occurred for Person#4132.</p> <p>To me it seems that this indeterministic behavior might be the main reason for the unsolved multiple-representation exceptions and needs urgently be examined and fixed.</p> <p>36:</p> <pre><<< Root Entity TaxonNode with id 62455 >>> Duplicate CDM Entities, - language:Language/273 in entity eu.etaxonomy.cdm.model.term.Representation with id : 808 -- entity belongs to cache(s) : {DC} - language:Language/273 in entity eu.etaxonomy.cdm.model.term.Representation with id : 274 -- entity belongs to cache(s) : ----- - language:Language/273 in entity eu.etaxonomy.cdm.model.term.Representation with id : 2470 -- entity belongs to cache(s) : - language:Language/273 in entity eu.etaxonomy.cdm.model.common.LanguageString with id : 431 1 -- entity belongs to cache(s) : {DC} ----- - language:Language/273 in entity eu.etaxonomy.cdm.model.term.Representation with id : 274 -- entity belongs to cache(s) : - language:Language/273 in entity eu.etaxonomy.cdm.model.common.LanguageString with id : 431 1 -- entity belongs to cache(s) : {DC} ----- - language:Language/273 in entity eu.etaxonomy.cdm.model.term.Representation with id : 2174 -- entity belongs to cache(s) : - language:Language/273 in entity eu.etaxonomy.cdm.model.common.LanguageString with id : 431 1 -- entity belongs to cache(s) : {DC} ----- - language:Language/273 in entity eu.etaxonomy.cdm.model.term.Representation with id : 2381 -- entity belongs to cache(s) : - language:Language/273 in entity eu.etaxonomy.cdm.model.common.LanguageString with id : 431 1</pre>			

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-- entity belongs to cache(s) : {DC}
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- language:Language/273      in entity eu.etaxonomy.cdm.model.term.Representation with id : 2379
-- entity belongs to cache(s) :
- language:Language/273      in entity eu.etaxonomy.cdm.model.common.LanguageString with id : 431
1
-- entity belongs to cache(s) : {DC}
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- language:Language/273      in entity eu.etaxonomy.cdm.model.term.Representation with id : 1079
-- entity belongs to cache(s) :
- language:Language/273      in entity eu.etaxonomy.cdm.model.common.LanguageString with id : 431
1
-- entity belongs to cache(s) : {DC}
-----
- language:Language/273      in entity eu.etaxonomy.cdm.model.term.Representation with id : 2378
-- entity belongs to cache(s) :
- language:Language/273      in entity eu.etaxonomy.cdm.model.common.LanguageString with id : 431
1
-- entity belongs to cache(s) : {DC}
-----
- language:Language/273      in entity eu.etaxonomy.cdm.model.term.Representation with id : 2172
-- entity belongs to cache(s) :
- language:Language/273      in entity eu.etaxonomy.cdm.model.common.LanguageString with id : 431
1
-- entity belongs to cache(s) : {DC}
-----
- language:Language/273      in entity eu.etaxonomy.cdm.model.term.Representation with id : 810
-- entity belongs to cache(s) :
- language:Language/273      in entity eu.etaxonomy.cdm.model.common.LanguageString with id : 431
1
-- entity belongs to cache(s) : {DC}
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Not In Cache Entities (*: NOT_FOUND, ?: COPY_ENTITY)

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- ?[Representation#274].representations[ java.util.HashSet ].language[Language#273].name[LanguageString#4311].classification[Classification#10].[TaxonNode#62455]
- ?language[Language#273].[Representation#274].representations[ java.util.HashSet ].language[Language#273].name[LanguageString#4311].classification[Classification#10].[TaxonNode#62455]
- *rank[Rank#802].name[TaxonName#33796].taxon[Taxon#152246].parent[TaxonNode#48294].[TaxonNode#62455]
- ?[Representation#810].representations[ java.util.HashSet ].rank[Rank#802].name[TaxonName#33796].taxon[Taxon#152246].parent[TaxonNode#48294].[TaxonNode#62455]
- *area[NamedArea#2358].[Distribution#605595].descriptionElements[ java.util.HashSet ].[TaxonDescription#59260].descriptions[ java.util.HashSet ].taxon[Taxon#165205].[TaxonNode#62455]
- *level[NamedAreaLevel#2267].area[NamedArea#2358].[Distribution#605595].descriptionElements[ java.util.HashSet ].[TaxonDescription#59260].descriptions[ java.util.HashSet ].taxon[Taxon#165205].[TaxonNode#62455]
- *[Representation#2379].representations[ java.util.HashSet ].level[NamedAreaLevel#2267].area[NamedArea#2358].[Distribution#605595].descriptionElements[ java.util.HashSet ].[TaxonDescription#59260].descriptions[ java.util.HashSet ].taxon[Taxon#165205].[TaxonNode#62455]
- ?[Representation#2470].representations[ java.util.HashSet ].area[NamedArea#2358].[Distribution#605595].descriptionElements[ java.util.HashSet ].[TaxonDescription#59260].descriptions[ java.util.HashSet ].taxon[Taxon#165205].[TaxonNode#62455]
- *partOf[NamedArea#2269].area[NamedArea#2358].[Distribution#605595].descriptionElements[ java.util.HashSet ].[TaxonDescription#59260].descriptions[ java.util.HashSet ].taxon[Taxon#165205].[TaxonNode#62455]
- *level[NamedAreaLevel#2266].partOf[NamedArea#2269].area[NamedArea#2358].[Distribution#605595].descriptionElements[ java.util.HashSet ].[TaxonDescription#59260].descriptions[ java.util.HashSet ].taxon[Taxon#165205].[TaxonNode#62455]
- *[Representation#2378].representations[ java.util.HashSet ].level[NamedAreaLevel#2266].partOf[NamedArea#2269].area[NamedArea#2358].[Distribution#605595].descriptionElements[ java.util.HashSet ].[TaxonDescription#59260].descriptions[ java.util.HashSet ].taxon[Taxon#165205].[TaxonNode#62455]
- ?[Representation#2381].representations[ java.util.HashSet ].partOf[NamedArea#2269].area[NamedArea#2358].[Distribution#605595].descriptionElements[ java.util.HashSet ].[TaxonDescription#59260].descriptions[ java.util.HashSet ].taxon[Taxon#165205].[TaxonNode#62455]
- *status[PresenceAbsenceTerm#2089].[Distribution#605595].descriptionElements[ java.util.HashSet ].[TaxonDescription#59260].descriptions[ java.util.HashSet ].taxon[Taxon#165205].[TaxonNode#62455]

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- ?[Representation#2172].representations[java.util.HashSet].status[PresenceAbsenceTerm#2089].[Distribution#605595].descriptionElements[java.util.HashSet].[TaxonDescription#59260].descriptions[java.util.HashSet].taxon[Taxon#165205].[TaxonNode#62455]
- *feature[Feature#999].[Distribution#605595].descriptionElements[java.util.HashSet].[TaxonDescription#59260].descriptions[java.util.HashSet].taxon[Taxon#165205].[TaxonNode#62455]
- ?[Representation#1079].representations[java.util.HashSet].feature[Feature#999].[Distribution#605595].descriptionElements[java.util.HashSet].[TaxonDescription#59260].descriptions[java.util.HashSet].taxon[Taxon#165205].[TaxonNode#62455]
- *status[PresenceAbsenceTerm#2091].[Distribution#605596].descriptionElements[java.util.HashSet].[TaxonDescription#59260].descriptions[java.util.HashSet].taxon[Taxon#165205].[TaxonNode#62455]
- ?[Representation#2174].representations[java.util.HashSet].status[PresenceAbsenceTerm#2091].[Distribution#605596].descriptionElements[java.util.HashSet].[TaxonDescription#59260].descriptions[java.util.HashSet].taxon[Taxon#165205].[TaxonNode#62455]
- ?[Representation#808].representations[java.util.HashSet].rank[Rank#800].name[TaxonName#132501].taxon[Taxon#165205].[TaxonNode#62455]

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38:

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<<< Root Entity TaxonNode with id 62455 >>>
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No Duplicate CDM Entities.

Not In Cache Entities (*: NOT_FOUND, ?: COPY_ENTITY)

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- ?[Representation#274].representations[java.util.HashSet].language[Language#273].name[LanguageString#4311].classification[Classification#10].[TaxonNode#62455]
- ?[Representation#808].representations[java.util.HashSet].rank[Rank#800].name[TaxonName#132501].taxon[Taxon#165205].[TaxonNode#62455]

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38:

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<<< Root Entity TaxonNode with id 62455 >>>
```

Duplicate CDM Entities,

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- authorship:Person/4132      in entity eu.etaxonomy.cdm.model.reference.Reference with id : 33035
  -- entity belongs to cache(s) :
- combinationAuthorship:Person/4132      in entity eu.etaxonomy.cdm.model.name.TaxonName with id : 132501
  -- entity belongs to cache(s) : {TC}
-----

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Not In Cache Entities (*: NOT_FOUND, ?: COPY_ENTITY)

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- ?[Representation#274].representations[java.util.HashSet].language[Language#273].name[LanguageString#4311].classification[Classification#10].[TaxonNode#62455]
- ?authorship[Person#4132].nomenclaturalReference[Reference#33035].name[TaxonName#132501].taxon[Taxon#165205].[TaxonNode#62455]
- ?[Representation#808].representations[java.util.HashSet].rank[Rank#800].name[TaxonName#132501].taxon[Taxon#165205].[TaxonNode#62455]

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What I did in E+M (version 2019-10-31):

Open Session View

Search for "Salvia spinosa subsp. maroccana" => 2 results

Open "... sec Euro+Med Plantbase ..." in NameEditor

Wait

Exchange taxon name for the opened taxon by searching in dialog for Salvia spinosa subsp. maroccana

Wait

In Session View open "Inspect Active Session"

Related issues:

Related to EDIT - bug #8806: Multiple representations problem on saving Desri...

[Workforme](#)

History

#1 - 10/31/2019 12:17 PM - Andreas Müller

- Description updated

#2 - 01/16/2020 10:01 AM - Andreas Müller

- Related to bug #8806: Multiple representations problem on saving Descriptive Data Set added