

Edit - bug #6978

NPE in DefaultReferenceCacheStrategy

09/22/2017 03:31 PM - Andreas Kohlbecker

Status:	New	Start date:	09/22/2017
Priority:	New	Due date:	
Assignee:	Andreas Kohlbecker	% Done:	0%
Category:	cdmlib	Estimated time:	0.00 hour
Target version:	Unassigned CDM tickets	Found in Version:	
Severity:	normal		

Description

OAIPMH Service call broken by a bug in the DefaultReferenceCacheStrategy:

http://test.e-taxonomy.eu/cdmserver/flora_cuba/reference/oi?verb=ListIdentifiers&metadataPrefix=oi_dc&set=reference

```
java.lang.NullPointerException
    at eu.etaxonomy.cdm.strategy.cache.reference.DefaultReferenceCacheStrategy.isNomRef(DefaultReferenceCacheStrategy.java:481)
    at eu.etaxonomy.cdm.strategy.cache.reference.DefaultReferenceCacheStrategy.getTitleCache(DefaultReferenceCacheStrategy.java:114)
    at eu.etaxonomy.cdm.strategy.cache.reference.DefaultReferenceCacheStrategy.getTitleCache(DefaultReferenceCacheStrategy.java:1)
    at eu.etaxonomy.cdm.model.common.IdentifiableEntity.generateTitle(IdentifiableEntity.java:581)
    at eu.etaxonomy.cdm.model.reference.Reference.generateTitle(Reference.java:838)
    at eu.etaxonomy.cdm.model.common.IdentifiableEntity.getTitleCache(IdentifiableEntity.java:211)
    at eu.etaxonomy.cdm.model.reference.Reference.getTitleCache(Reference.java:431)
    at eu.etaxonomy.cdm.persistence.dao.initializer.TitleAndNameCacheAutoInitializer.initialize(TitleAndNameCacheAutoInitializer.java:85)
    at eu.etaxonomy.cdm.persistence.dao.initializer.TitleAndNameCacheAutoInitializer.initialize(TitleAndNameCacheAutoInitializer.java:30)
    at eu.etaxonomy.cdm.persistence.dao.initializer.AbstractBeanInitializer.invokePropertyAutoInitializers(AbstractBeanInitializer.java:353)
    at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.autoinitializeBean(AdvancedBeanInitializer.java:376)
    at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.initializeAll(AdvancedBeanInitializer.java:70)
    at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.initialize(AdvancedBeanInitializer.java:57)
    at eu.etaxonomy.cdm.persistence.dao.hibernate.common.VersionableDaoBase.getAuditEvents(VersionableDaoBase.java:389)
    at eu.etaxonomy.cdm.api.service.VersionableServiceBase.pageAuditEvents(VersionableServiceBase.java:67)
```

History

#1 - 09/22/2017 04:24 PM - Andreas Müller

- Assignee changed from Andreas Müller to Andreas Kohlbecker

This is not necessarily a bug

```
protected static boolean isNomRef(ReferenceType type){
    switch (type){
        case Article:
        case Book:
        case BookSection:
```

The exception happens in the second line, where the type of the reference is passed.

A reference should ALWAYS have a type therefore we do not need a null check here.

The strange thing is that there is no Reference with RefType IS NULL in cuba test DB.

BUT in the stacktrace there are lines

```
at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.initialize(AdvancedBeanInitializer.java:57)
at eu.etaxonomy.cdm.persistence.dao.hibernate.common.VersionableDaoBase.getAuditEvents(VersionableDaoBase.java:389)
at eu.etaxonomy.cdm.api.service.VersionableServiceBase.pageAuditEvents(VersionableServiceBase.java:67)
```

so it looks like this has to do with Auditing. Maybe old version of Reference are loaded. But also here only reference of REVTYPE = 2 (Deleted) exist. Ofcourse these do not have a refType as they are completely empty.

To me this looks more like a problem in the AbstractOaiPmhController. Why does it call methods to retrieve auditing data in AbstractOaiPmhController.listIdentifiers(). Or maybe it is a bit more down in the stack somewhere in the Auditing functionality.

Reassign to AK as it is maybe related to AbstractOaiPmhController.

#2 - 09/22/2017 04:36 PM - Andreas Müller

See similar issue [#6979#note-1](#)

#3 - 09/22/2017 05:04 PM - Andreas Kohlbecker

- Tags changed from *oaipmh* to *oaipmh*, *hibernate_rovers*