

## EDIT - bug #7287

### Unit tests using the DefaultTermInitializer break subsequent integration tests in the suite

02/21/2018 06:21 PM - Andreas Kohlbecker

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	New	<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 5.0	<b>Found in Version:</b>	
<b>Severity:</b>	normal		
<b>Description</b>			
Here we make the distinction between Unit and integration test by the fact that integration tests are sub classing CdmTransactionalIntegrationTest.			
A couple of unit test are making use of term, so the terms need to be initialized. This is done in theses tests by ca method like:			
<pre>@BeforeClass public static void setUpBeforeClass() throws Exception {     DefaultTermInitializer initializer = new DefaultTermInitializer();     initializer.initialize(); }</pre>			
<b>This approach is highly problematic:</b>			
If an integration test has run before the TestingTermInitializer has already initialized the terms. Calling the initialize() method of the DefaultTermInitializer will reset and override all terms. This breaks subsequent Integration tests since the TestingTermInitializer is only run once per suite.			
An interim solution which is not 100% reliable is to check in the setUpBeforeClass() method if the terms already have been loaded. This method should be in a base class for all tests that use the DefaultTermInitializer.			
As a long term task we should separate Unit and integration tests completely, see <a href="#">#7288</a>			
<b>Additional tasks:</b>			
<ul style="list-style-type: none"><li>• revert DerivedUnitFacadeCacheStrategyInjectionTest, DerivedUnitFacadeCacheStrategyTest, DerivedUnitFacadeFieldUnitCacheStrategyTest to unit tests, see commented @BeforeClass</li></ul>			
<b>Related issues:</b>			
Related to EDIT - task #7288: Separate Unit and integration tests completely,		<b>New</b>	
Related to EDIT - bug #8174: First test fails if term data is in loaded DataSet		<b>New</b>	

#### Associated revisions

##### Revision ec33f269 - 02/22/2018 11:30 AM - Andreas Kohlbecker

ref #7287 base test class for all unit tests which need terms being initialized

##### Revision 38e6ea4a - 02/22/2018 12:31 PM - Andreas Kohlbecker

ref #7287 fixing bug

##### Revision 9a4a2ab7 - 02/22/2018 12:41 PM - Andreas Kohlbecker

ref #7287 reverting DerivedUnitFacade test back to using tests

##### Revision 6b579e4a - 02/08/2021 04:54 PM - Andreas Müller

ref #7287 unignore tests on CondensedDistributionComposerBase subclasses

#### History

##### #1 - 02/21/2018 06:23 PM - Andreas Kohlbecker

- Description updated

## #2 - 02/21/2018 06:23 PM - Andreas Kohlbecker

- Related to task #7288: Separate Unit and integration tests completely, added

## #3 - 02/21/2018 06:33 PM - Andreas Kohlbecker

affected test class files (without cdmlib-model, model has no integration tests!):

```
cdmlib-ext/src/test/java/eu/etaxonomy/cdm/ext/ipni/IpniServiceTest.java
cdmlib-ext/src/test/java/eu/etaxonomy/cdm/ext/geo/EuroPlusMedCondensedDistributionComposerTest.java
cdmlib-ext/src/test/java/eu/etaxonomy/cdm/ext/geo/FloraCubaCondensedDistributionComposerTest.java
cdmlib-services/src/test/java/eu/etaxonomy/cdm/api/facade/DerivedUnitFacadeCacheStrategyInjectionTest.java
cdmlib-services/src/test/java/eu/etaxonomy/cdm/api/facade/DerivedUnitFacadeCacheStrategyTest.java
cdmlib-services/src/test/java/eu/etaxonomy/cdm/api/facade/DerivedUnitFacadeFieldUnitCacheStrategyTest.java
cdmlib-services/src/test/java/eu/etaxonomy/cdm/api/service/DistributionNodeByAreaLabelComparatorTest.java
```

## #4 - 02/21/2018 06:39 PM - Andreas Kohlbecker

- Description updated

## #5 - 02/22/2018 07:54 AM - Andreas Kohlbecker

- Description updated

## #6 - 02/22/2018 07:56 AM - Andreas Kohlbecker

- Description updated

## #7 - 02/22/2018 11:19 AM - Andreas Kohlbecker

- Tags set to test

## #8 - 02/22/2018 11:41 AM - Andreas Kohlbecker

After using the new unit test base class TermTest for all test which need the terms to be initialized another strange symptom pops up.

... test in cdmlib-persistence are failing now.

The analysis of the cause for this problem reveals that the tests in cdmlib-persistence are failing if they are preceeded by the tests in cdmlib test:

```
mvn test -pl cdmlib-test,cdmlib-persistence
```

==> **ALL TEST FAIL** (Tests run: 436, Failures: 0, Errors: 235, Skipped: 7)

Exception: *Could not obtain transaction-synchronized Session for current thread*

```
mvn test -pl cdmlib-persistence
```

==> **SUCCESS**

in cdmlib-test there is only one test anyway. But even after disabling this test by annotating the class with @Ignore:

```
mvn test -pl cdmlib-test,cdmlib-persistence
```

====> Still **ALL TEST ARE FAILING** even if no tests are running

## #9 - 02/22/2018 12:33 PM - Andreas Kohlbecker

The above mentioned problems where only due to a local change in CdmTransactionalIntegrationTest which I applied for testing!

## #10 - 02/22/2018 12:44 PM - Andreas Kohlbecker

- Status changed from New to Closed

## #11 - 02/22/2018 12:44 PM - Andreas Kohlbecker

- % Done changed from 0 to 100

## #12 - 02/08/2021 04:48 PM - Andreas Müller

- Related to bug #8174: First test fails if term data is in loaded DataSet added

## #13 - 02/08/2021 04:49 PM - Andreas Müller

Andreas Kohlbecker wrote:

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This could be related to [#8174](#)