

## Infrastructure - Task #3162

### Enhance index task processing to limit re-tries.

2012-08-30 18:29 - Skye Roseboom

<b>Status:</b>	Closed	<b>Start date:</b>	2012-08-30
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Skye Roseboom	<b>% Done:</b>	100%
<b>Category:</b>	d1_indexer	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Sprint-2012.35-Block.5.2	<b>Story Points:</b>	
<b>Milestone:</b>	CCI-1.0.4		
<b>Product Version:</b>	*		

#### Description

Update index task processing to detect when a task has attempted sufficient retries and move the task to a failure status.

Consider how limited retries will effect processing ORE docs that are 'waiting' for data to appear. Probaby best to limit retries and allow auditing to handle it once a day or so.

Consider listener on objectPath to create index tasks for science metadata and resource maps? Indicates document is present on one CN file system - not necessarily the local. So limited help. Possible to listen to metacat replication complete events for local filesystem?

Create second quartz taks in the index-processor daemon that handles failed tasks daily or so.

#### History

##### #1 - 2012-08-30 18:40 - Skye Roseboom

- Milestone changed from CCI-1.0.4 to CCI-1.0.5

##### #2 - 2012-08-30 19:54 - Skye Roseboom

- Milestone changed from CCI-1.0.5 to CCI-1.1

##### #3 - 2012-09-05 02:47 - Skye Roseboom

- Milestone changed from CCI-1.1 to CCI-1.0.4

##### #4 - 2012-09-05 02:59 - Skye Roseboom

Implementing a processing back off strategy for IndexTask processing. After 2 retries or 1 failure the index task will be marked FAILED and a 'nextExecution' timestamp is set onto the task. So no index task will be retried more than 2 times without failing.

Once in failure state, the task will not process again until the 'nextExecution' time has passed. The back-off strategy in IndexTask will move the execution time for first failure at 20 minutes, then 2 hours, then 8 hours, then 24 hours. After 3 attempts at the 24hour retry level, the task it moved to its final state - once a week retry.

##### #5 - 2012-09-05 03:17 - Skye Roseboom

- File redmine3162.txt added

initial update patch.

##### #6 - 2012-09-05 03:47 - Skye Roseboom

also need to move peggym.130.4-archived science metadata file for delete unit test.

**#7 - 2012-09-05 20:14 - Skye Roseboom**

- *Tracker changed from Story to Task*

**#8 - 2012-09-05 20:16 - Skye Roseboom**

- *Status changed from In Progress to Testing*

Moved to 1.0.0 branch for testing in RC of 1.0.4

**#9 - 2012-09-12 14:30 - Skye Roseboom**

- *Status changed from Testing to Closed*

Tested on stage environment with 1.0.4 RC.

Ran index rebuild process and index-process daemon.

Index log less chatty about tasks that cannot process yet or at all as the retry back-off strategy takes effect. Failed index tasks are eventually (as determined by back-off strategy) retried as part of normal index processing.

**Files**

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redmine3162.txt	26.3 KB	2012-09-05	Skye Roseboom
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