

## Metacat - Bug #3304

### Replication: Timed replication failures occur twice instead of once

05/19/2008 02:28 PM - Duane Costa

<b>Status:</b>	Resolved	<b>Start date:</b>	05/19/2008
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Jing Tao	<b>% Done:</b>	0%
<b>Category:</b>	metacat	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	1.8.1	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	3304		
<b>Description</b>			
<p>This bug was first described in <a href="#">#3296</a>, however I am opening a separate bug report for it because <a href="#">#3296</a> is more specific to LTER replication issues, while this bug is general to Metacat.</p> <p>During a timed replication, documents that fail to replicate are sent a second time for no apparent reason. (Jing said he suspects this is a bug.) For example:</p> <pre>08-04-30 23:09:45 :: document ces_dataset.284.1 sent 08-04-30 23:09:48 :: document ces_dataset.285.1 sent 08-04-30 23:09:49 :: document ces_dataset.288.1 sent 08-04-30 23:09:50 :: document ces_dataset.291.1 sent 08-04-30 23:09:51 :: document ces_dataset.308.1 sent 08-04-30 23:10:01 :: document knb-lter-and.3190.4 sent 08-04-30 23:10:04 :: document knb-lter-and.3234.5 sent . . . 08-05-01 04:26:29 :: document ces_dataset.284.1 sent 08-05-01 04:26:30 :: document ces_dataset.285.1 sent 08-05-01 04:26:31 :: document ces_dataset.288.1 sent 08-05-01 04:26:32 :: document ces_dataset.291.1 sent 08-05-01 04:26:33 :: document ces_dataset.308.1 sent 08-05-01 04:26:43 :: document knb-lter-and.3190.4 sent 08-05-01 04:26:45 :: document knb-lter-and.3234.5 sent</pre> <p>Replication from LTER to KNB takes about eleven hours to complete because of the large number of replication failures (see bug <a href="#">#3296</a>). If documents were sent only once instead of twice, this time could be cut in half.</p>			
<b>Related issues:</b>			
Is duplicate of Metacat - Bug #3303: In KNB server, metacat request two times...		<b>Resolved</b>	<b>05/19/2008</b>

### History

#### #1 - 05/19/2008 05:09 PM - Jing Tao

- Bug 3303 has been marked as a duplicate of this bug. \*\*\*

#### #2 - 05/20/2008 10:45 AM - Jing Tao

The bug was fixed.

The problem is in ReplicationHanlder.update() method.  
Before,the code looks like:

```
XMLReader parser;
ReplMessageHandler message = new ReplMessageHandler();
parser = initParser(message);
for (int i=0; i<serverList.size(); i++) {
    parser.parse(serverList.elementAt(i).response());
```

```
    handle (message)
```

```
}
```

So the "message" will accumulate the response (doclist) for every server. If the download failed, the metacat will tried again in next iteration.

if we do this, the problem will be gone since in every iteration, the message object will be initialized and would store the doclist from previous iteration.  
for (int i=0; i<serverList.size(); i++) {

```
XMLReader parser;  
    ReplMessageHandler message = new ReplMessageHandler();  
    parser = initParser(message);  
    parser.parse(serverList.elementAt(i).response());  
  
handle(message)  
  
}
```

This was tested the replication among dev, ben's local machine and my local machine. It worked.

**#3 - 03/27/2013 02:23 PM - Redmine Admin**

Original Bugzilla ID was 3304