

## Infrastructure - Task #3263

### GMN node has the problem to handle the calling: mn.listObjects()

2012-09-26 02:16 - Jing Tao

<b>Status:</b>	Closed	<b>Start date:</b>	2012-09-26
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Roger Dahl	<b>% Done:</b>	100%
<b>Category:</b>	d1_mn_GMN	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Sprint-2012.39-Block.5.4	<b>Story Points:</b>	
<b>Milestone:</b>	None		
<b>Product Version:</b>	*		

#### Description

When I call mn.listObjects against a GMN node, I found the GMN give me a double size of the objects residing in it.

Chris Jones wrote a small test program:

```
package org.dataone.tests;

import java.util.List;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.dataone.client.D1Client;
import org.dataone.client.MNode;
import org.dataone.service.exceptions.BaseException;
import org.dataone.service.types.v1.ObjectInfo;
import org.dataone.service.types.v1.ObjectList;

public class MNodeListObjectsTest {

    /**
     * @param args
     */
    public static void main(String[] args) {
        Log log = LogFactory.getLog(MNodeListObjectsTest.class);

        log.debug "[" + Thread.currentThread().getName() + "] created.");

        MNode mn = null;

        mn = D1Client.getMN("https://mn-demo-1.test.dataone.org/knb/d1/mn");
        try {
            ObjectList list = mn.listObjects();
            log.debug("list size: " + list.sizeObjectInfoList());

            List<ObjectInfo> infoList = list.getObjectInfoList();
            log.debug("infoList size: " + infoList.size());

        } catch (BaseException e) {
            e.printStackTrace();
        }
    }
}
```

This test works very well for the server <https://mn-demo-1.test.dataone.org/knb/d1/mn>.

However, when i change the mn base url to <https://nibbler.nceas.ucsb.edu/mn>, print out is:

list size: 20

infoList size: 20

However, the browser <https://nibbler.nceas.ucsb.edu/mn/v1/object> gave me:

The size doesn't match: one is 20, the other is 10.

So we guess GMN node has an issue to handle the mn.listObjects().

## History

### #1 - 2012-09-27 16:40 - Jing Tao

The two results not match is not due to the access control. First, i am the only one playing the GMN node and everything i put into the server is public readable. Second we tested twice against the GMN. The first time, the browser showed 33 objects and listObjects() showed 66 objects. And a print-out showed:

0the identifier is SNAP\_PRC\_CRU8bc5df22-ab45-4265-8158-c9402a1911cb

1the identifier is SNAP\_PRC\_CRU8bc5df22-ab45-4265-8158-c9402a1911cb

After deleting those objects in the GMN, i created another 10 objects. Then we tested again. This time the browser showed it 10 objects and listObjects() showed 20 objects. So each time the listObjects got the double size.

### #2 - 2012-09-27 16:48 - Chris Jones

- Target version set to Sprint-2012.39-Block.5.4

- Assignee set to Rob Nahf

- Category set to d1\_libclient\_java

After talking with Roger and Rob, it looks like this may be an issue with MNode. It's odd that it works fine against mn-demo-1, and not nibbler. Assigning this to Rob to take a look.

### #3 - 2012-09-28 19:17 - Rob Nahf

- Assignee changed from Rob Nahf to Roger Dahl

- Category changed from d1\_libclient\_java to d1\_mn\_GMN

- Status changed from New to In Progress

hitting the /object endpoint from chrome, nibbler gives me 5 total objects. Using MNode in libclient, I get the same number (5), using the same two ways listed in the sample program.

MNode is giving the expected result, so the problem likely lies elsewhere.

### #4 - 2012-09-28 20:49 - Jing Tao

Hi, Rob:

I ran the code which chrise wrote again ( a little bit modification). Here is the result:

20120928-13:47:06: [WARN]: list size: 10 [edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]

20120928-13:47:06: [WARN]: infoList size: 10 [edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]

20120928-13:47:06: [WARN]: id : SNAP\_PRC\_CRU:694acfd6e0fd6a774dc7060c4ca58fcc

[edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]

20120928-13:47:06: [WARN]: id : SNAP\_PRC\_CRU:694acfd6e0fd6a774dc7060c4ca58fcc

[edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]

20120928-13:47:06: [WARN]: id : SNAP\_A1B:cde09023e77ec888708b8092bc5ba255 [edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]

20120928-13:47:06: [WARN]: id : SNAP\_A1B:cde09023e77ec888708b8092bc5ba255 [edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]  
20120928-13:47:06: [WARN]: id : SNAP\_TAVE\_CRU:6c917cdbe886e89db00bf5cbe55969dd  
[edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]  
20120928-13:47:06: [WARN]: id : SNAP\_TAVE\_CRU:6c917cdbe886e89db00bf5cbe55969dd  
[edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]  
20120928-13:47:06: [WARN]: id : SNAP\_B1\_A2:f9aeff8871dcc0cbeb5780547f943bc0 [edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]  
20120928-13:47:06: [WARN]: id : SNAP\_B1\_A2:f9aeff8871dcc0cbeb5780547f943bc0 [edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]  
20120928-13:47:06: [WARN]: id : resource-map:fd8f51fa-9474-408a-9610-f4a59576cf85 [edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]  
20120928-13:47:06: [WARN]: id : resource-map:fd8f51fa-9474-408a-9610-f4a59576cf85 [edu.ucsb.nceas.evos.thredds.ThreddsObjectRegisterTest]

You see the size is 10 and there are duplicate ids.

It is odd that yours worked, mine failed.

#### **#5 - 2012-09-29 00:15 - Jing Tao**

Roger and I did more test.

Accidentally, i found if there is no cilogon certificates in the tmp dir, the code will give you 5 objects. But if it has one, it will give you 10 objects. Roger think the client will receive twice responds: one is as public and the other will be the authenticated user.

#### **#6 - 2012-10-02 04:46 - Roger Dahl**

- Status changed from In Progress to Closed