Infrastructure - Story #1952

SerialVersion in SystemMetadata needs to be incremented with each Update

2011-10-28 23:08 - Robert Waltz

Status: Closed Start date: 2011-11-01

Priority: Normal Due date:

Assignee: Robert Waltz % Done: 100%

Category: Documentation Estimated time: 0.00 hour

Target version: Sprint-2011.46-Block.6

Story Points:

Description

The serialVersion in SystemMetadata allows for consistency between updates of systemMetadata

systemMetadata can only be updated on the CN systemMetadata is managed by Hazelcast

lock(); get(); increment(); put(); unlock();

Every operation that manipulated SystemMetadata on the CN will follow the pattern:

```
if (hzSystemMetadata.tryLock(pid, 500L, TimeUnit.MILLISECONDS)) {
Systemmetadata systemMetadata = hzSystemMetadata.get(pid);
```

do something here

and of course you'll want the above in a try catch block too, so that if an exception is raised, a lock will still be released

Locking will be performed on the hzSystemMetadata HazelcastMap

Get will be performed against the hzSystemMetadata HazelcastMap

increment is an operation performed on the SystemMetadata.serialVersion.

Put will be performed against the hzSystemMetadata HazelcastMap

Unlocking will be performed on the Hazelcast Lock structure

Subtasks:

Task # 1979: Update synchronization to use the locking and serialversion algorithm	Closed
Task # 1980: Update replication to use the locking and serialVersion algorithm	Closed
Task # 1981: Update CNReplication implementation to use the locking and serial Version a	Closed
Task # 1991: Update CNReplication and CNAuthorization interfaces with serialVersion change	Closed
Task # 1992: Update CNode implementation with serialVersion Additions	Closed
Task # 1993: Update Metacat implementation to support serial Version additions	Closed
Task # 1994: Update CNReplication proxy classes to support serialVersion additions	Closed
Task # 1995: Update Metacat auth implementation to support serialVersion additions	Closed
Task # 1996: Update CNAuthorization proxy classes to support serial Version additions	Closed
Task # 1982: Update CNAuthorization implementation to use the locking and serialVersion	Closed

Related issues:

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History

#1 - 2011-11-07 18:09 - Dave Vieglais

- Target version changed from Sprint-2011.44-Block.6 to Sprint-2011.45-Block.6
- Position set to 1

#2 - 2011-11-15 03:34 - Dave Vieglais

- Target version changed from Sprint-2011.45-Block.6 to Sprint-2011.46-Block.6
- Position deleted (9)
- Position set to 1

#3 - 2011-11-15 17:52 - Robert Waltz

- Status changed from New to Closed

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