Infrastructure - Task #3744

Story # 3729 (Closed): Member Nodes should be the authoritative source of System Metadata

Add MN API calls to update system metadata

2013-05-07 16:43 - Chris Jones

Status: Closed Start date: 2013-05-07

Priority: Normal Due date:

Assignee: Chris Jones % Done: 100%

Category: Architecture Design Estimated time: 160.00 hours

Target version: CCI-2.0.0

Milestone: CCI-2.0 Story Points:

Product Version: 2.0.0

Description

With the MN becoming the authority for system metadata, the following calls will need to be changed:

MNCore.archive() - add

MNCore.setObsoletedBy() - add

MNAuthorization.setRightsHolder() - add

MNAuthorization.setAccessPolicy() - add

CNCore.archive() - deprecate

CNCore.setObsoletedBy() - deprecate

CNAuthorization.setRightsHolder() - deprecate

CNAuthorization.setAccessPolicy() - deprecate

These changes will affect the following components:

d1 common java

d1_common_python

d1 libclient java

d1 libclinet python

d1_synchronization

d1 replication

Metacat CNodeService

Metacat MNodeService

GMN

and other MN stacks that will need to implement the new API calls

History

#1 - 2014-07-08 23:47 - Ben Leinfelder

- Status changed from New to In Progress

A couple questions:

Why not include a catch-all MNStorage.updateSystemMetadata() method instead of targeting specific fields in the SystemMetadata? For example, how would I change the formatId of an object unless there were an MN.updateSystemMetadata() method or a specific MNStorage.setFormatId() method. I prefer the former.

I don't think we can support MNCore operations that mutate data since there is no authentication in Tier 1. (So archive() will have to stay in MNStorage)

What about CN.updateReplicationPolicy() - should that be deprecated as well since we will be using CN.updateSystemMetadata() to change all the other mutable fields?

#2 - 2014-07-15 16:51 - Chris Jones

We've made the decision to use MNStorage.updateSystemMetadata(), as Ben suggested above.

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#3 - 2014-10-01 16:45 - Robert Waltz

- Target version set to CCI-2.0.0

#4 - 2014-10-07 00:02 - Rob Nahf

- Product Version set to 2.0.0
- Milestone changed from None to CCI-2.0

#5 - 2015-02-11 20:09 - Rob Nahf

- % Done changed from 0 to 30
- Category changed from d1_common_java to Architecture Design

#6 - 2015-05-28 18:03 - Chris Jones

- % Done changed from 30 to 100
- Status changed from In Progress to Closed
- translation missing: en.field_remaining_hours changed from 160.0 to 0.0

We made the decision to use MNStorage.updateSystemMetadata() instead of all of the individual API methods above. This is now in the architecture documentation. See

 $\frac{\text{http://jenkins-1.dataone.org/jenkins/job/API\%20Documentation\%20-\%20trunk/ws/api-documentation/build/html/apis/MN_APIs.html#MNStorage.updateSystemMetadata}.$

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