Infrastructure - Task #1045

Feature # 1044 (Closed): Local data cacheing for java libclient

Modify libclient java to support local data cacheing

d1 libclient java

CCI-1.0.0

2010-11-09 17:05 - Matthew Jones

Status: Closed

Priority: Normal

Assignee: Matthew Jones

Target version: Sprint-2011.44-Block.6

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Product Version: *

Story Points:

Estimated time:

Start date:

Due date:

% Done:

100%

Closed

0.00 hour

Description

Category:

Milestone:

Related issues:

Blocks Infrastructure - Task #1043: Modify R client to access data from DataO...

Blocked by Infrastructure - Task #1046: Integrate Data Manager library to lib... Rejected

History

#1 - 2011-10-26 18:06 - Matthew Jones

- Status changed from New to In Progress

#2 - 2011-11-05 17:05 - Matthew Jones

- Category set to d1 libclient java
- % Done changed from 0 to 100
- Milestone set to CCI-1.0.0

Implementation of the LocalCache (ticket #1044) for d1_libclient_java that provides a local memory and disk cache for objects retrieved from DataONE MemberNodes completed. Implementation uses the Java JCS system, which handles all of the heavy lifting. Objects are cached in memory up to a configurable limit, and then on disk up to another configurable limit. There is a new property 'D1Client.useLocalCache' that is checked when any D1Node is instantiated -- if true, then the local cache is utilized for get() calls, but if false then it is ignored and the service call is made regardless. SystemMetadata can also be cached, but because SystemMetadata is mutable, this is not done by default -- a specific method call needs to be made to cache SystemMetadata, and then it should only be done for short periods of time if determined appropriate by the application. By default SystemMetadata is not cached.

Unit tests were added to test the caching system locally. Tests need to be added to the integration test suite, but as that test suite has not been passing for months, I was unable to determine if the new features broke anything.

#3 - 2011-11-05 17:08 - Matthew Jones

- Status changed from In Progress to Closed

2024-04-10 1/1