

Infrastructure - Task #1782

CN Replication components should be separated for scalability

2011-09-11 19:30 - Chris Jones

<b>Status:</b>	Closed	<b>Start date:</b>	2011-09-11
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Chris Jones	<b>% Done:</b>	100%
<b>Category:</b>	d1_replication	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Story Points:</b>	
<b>Milestone:</b>	CCI-0.6.4		
<b>Product Version:</b>	*		
<b>Description</b>  Currently, org.dataone.cn.service.replication.v1.ReplicationService implements the CNReplication API to field REST calls from both MNs and CNs, and also the Hazelcast EntryListener and ItemListener interfaces to monitor changes to 1) the hzSystemMetadataMap and 2) the hzReplicationTasks queue. This class should be refactored into 1) a ReplicationManager class that implements the Hazelcast interfaces and creates and submits ReplicationTasks, and 2) a ReplicationService (implemented in edu.ucsb.nceas.metacat.dataone.CNodeService) that handles the REST calls.			
<b>Subtasks:</b>			
Task # 1783: Create the ReplicationManager class to manage MN ReplicationTasks			Closed
Task # 1790: Create ReplicationManagerTest class to test ReplicationManager			Closed
Task # 1784: Implement CNReplication in Metacat's CNodeService using Hazelcast			Rejected
Task # 1785: CN SystemMetadata synchronization when an offline CN comes online			Rejected
Task # 1786: Use Hazelcast ExecutorService to update remote CN Metacat Science Metadata			Rejected
Task # 1787: Create a callable CNReplicationTask class for remote execution			Rejected
Task # 1788: Create a CNReplication tier 4 integration test			Closed
Task # 1789: Integrate replication queues and maps into Hazelcast processing cluster			Closed

History

#1 - 2012-01-03 16:55 - Chris Jones

- Status changed from New to Closed