

## Java Client - Task #6842

Bug # 6786 (Closed): d1\_libclient\_java should support Session parameters

Task # 6788 (Closed): refactor how the Multipart\*Nodes get their rest client

### expose the session information in CertificateManager

2015-02-05 22:21 - Rob Nahf

<b>Status:</b>	Closed	<b>Start date:</b>	2015-02-05
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Rob Nahf	<b>% Done:</b>	100%
<b>Category:</b>	d1_libclient_java	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CLJ-2.0.0		
<b>Story Points:</b>			

#### Description

The motivation is that MultipartD1Nodes have a default MultipartRestClient set at construction, and a Session with no certificate information is passed in on the method parameters, making it difficult to compare the two when time to choose. Underlying HttpClients don't expose what certificate they are configured with, too.

Try the X509Session idea - a Session subclass that contains certificate information

#### Associated revisions

##### Revision 15157 - 2015-02-05 22:57 - Rob Nahf

Refs #6788, #6786, #6842: Refactored MultipartD1Node (constructors and added getRestClient(Session s) method to provide a standard way for API methods to decide between Sessions passed via the method vs. in the constructor. Added new X509Session class, and restructured HttpMultipartRestClient and HttpUtils to work with new X509Session objects and allow removal of DefaultHttpMultipartRestClient.

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#### History

##### #1 - 2015-02-05 22:52 - Rob Nahf

- Status changed from New to Closed

- % Done changed from 0 to 100

- translation missing: en.field\_remaining\_hours set to 0

Created the X509Session object to hold both the certificate / key objects, as well as Session information. Also ended up adding HttpClient and MultipartRestClient properties to it to allow to already-built heavyweight constructs to be passed in on the method Session. The strategy is to use instanceof and property checks to check if any heavyweight constructs need to be built or not.

CertificateManager getSSLConnectionSocketFactory method used to do 3-4 distinct tasks, so I atomized these tasks into helper methods, the first of which is selectSession and returns the X509Session. Exposing the X509Session as a return gives users the opportunity to have access to the Session extracted from the certificate, as well as the certificate itself (to give access to expiration info).