[http://gforge.nci.nih.gov/plugins/scmcvs/cvsweb.php/cagrid-1-0/caGrid/projects/fqp/schema/FederatedQueryProcessor/FQPResultsMetadata.xsd?cvsroot=cagrid-1-0;f=h#rev1.1](http://gforge.nci.nih.gov/plugins/scmcvs/cvsweb.php/cagrid-1-0/caGrid/projects/fqp/schema/FederatedQueryProcessor/FQPResultsMetadata.xsd?cvsroot=cagrid-1-0;f=h" \l "rev1.1)

         We should probably use “Fault” instead of “Exception”

         This element <xsd:element name="Exception" minOccurs="0"/> should probably just be a reference to wsrbf:BaseFaultType

         DataElementsSource should probably be renamed (DataElement is a loaded term in caBIG); maybe ResultSource or something?

o   Isn’t there always going to be a one to one correspondence between DataElementsSource.serviceURL and TargetServicesStatus?  Don’t you need a way to identify the service for which you are providing the TargetServicesStatus?  I think these should be combined under an umbrella TargetService (or something) element that has the connection/status stuff, and the results stuff (once processing is complete)

         This is probably the ResourceProperty we will want to use for adding notification support to the Results service, so we probably want to add in a top level element for capturing things like the overall ExecutionStatus, which should have an enumeration of states with things like PROCESSING, COMPLETED, (and maybe different states  of completed with error or completed successfully)

o   As part of this we will want to be able to update this RP during the execution, so you should think of how the model may or may not need to change to show the current running state of execution (specifically the “minOccurs” and required aspects)

o   It’s also probably a good idea to put some sort of a “details” element or something, where we can log what we are doing during execution like ‘joining att Foo with att Bar of service X”; think about the type of information you would like to be able to see in a GUI executing a DCQL query, this RP will be the way to pass that information.

<http://gforge.nci.nih.gov/plugins/scmcvs/cvsweb.php/cagrid-1-0/caGrid/projects/fqp/schema/FederatedQueryProcessor/QueryExecutionParameters.xsd?cvsroot=cagrid-1-0;f=h>

         This looks fine; just probably need to document the relationship of the parameters (e.g. is the retryTimeout the total timeout, or the per retry…. Does failonerror setting have any impact on the retries, or does it just tell you what to do after the retries have been exhausted)

         Might want to and a waitPeriod as a time to wait between retries (i.e I want to retry 5 times, but wait 20 minutes after each failure before trying again).

* When delegating a credential to the FQP service, the FQP service must be running securely to obtain a credential from CDS. We can just require the FQP service to run securely and accept anonymous connections if the client doesn’t want to delegate a credential.
  + For security reasons, if the user delegates a credential, they must have a valid, non-anonymous caller ID. If they delegate and don’t have a caller ID, throw exception and refuse to run the query.
  + Additionally, if they delegate a credential, their caller ID must match the ID of the credential when retrieved from CDS. If not, fail and refuse to run the query.