

SciQLOP - Task #434

Implement a kind of virtual file system for space missions datas.

11/06/2015 10:43 AM - Alexis Jeandet

Status:	Closed	Start date:	11/06/2015
Priority:	Normal	Due date:	
Assignee:	Alexis Jeandet	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
revision:	r0	blocked:	No
Description			
<p>One way to deal with fact that all missions are different but have some similarities would be to describe all data products in virtual file system. For example you would be able to get Cassini FGM data through "/CASSINI/MAG/FGM" and at the same time it should allows you to get all data of one kind for a list of spacecrafts. Possible paths:</p> <ul style="list-style-type: none">• "/CASSINI/MAG/FGM" should give access to Cassini FGM flux• "*/MAG/FGM" should give access to all spacecrafts FGM flux• "/CASSINI CLUSTER/MAG/FGM" should give access to Cassini and Cluster FGM flux <p>You should also be able to query and filter data, for example you may ask for all electric field data but only time series with a sampling rate higher than 1kHz.</p> <p>The solution may be to describe this in XML format, now we need to choose which attributes we need to describe everything.</p> <p>Some random ideas:</p> <p>The spacecraft node should be described correctly. All data products description should at least contain:</p> <ul style="list-style-type: none">• The link to download them, it need to be flexible and multiple(allow mirrors). We can embed JavaScript rules to generate URLs from time windows.• The DATA geometry, is it a vector, a picture or something else?• The unit, no unit is one possible value.• The product name we expect to see in the cdf or tab header.• The list of sampling rates. <p>This solution has the big advantage to reduce code maintenance and put most information out of the code and allow users to add product/missions/mirrors and tweak them.</p>			

History

#1 - 11/06/2015 06:03 PM - Alexis Jeandet

- Target version set to SciQLop-1.0

#2 - 02/07/2015 06:36 PM - Alexis Jeandet

- Project changed from QLOP to SciQLOP

- Target version deleted (SciQLop-1.0)

#3 - 28/07/2015 05:27 PM - Alexis Jeandet

"This":<http://www.spase-group.org/index.jsp> seems to do the job, just need to implement a QAbstractItemModel from this.

#4 - 14/02/2019 09:50 AM - Alexis Jeandet

- Status changed from New to Closed