

Browsing TAP services with **TapHandle**

Implementation feedback

<http://saada.u-strasbg.fr/taphandle>

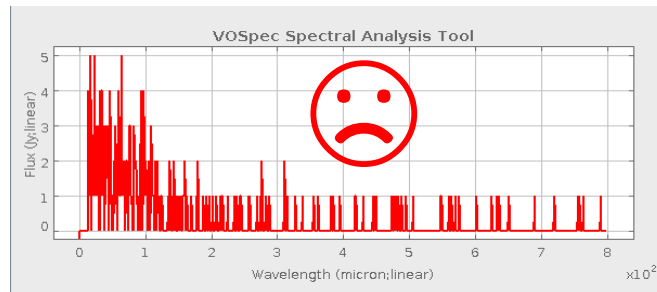
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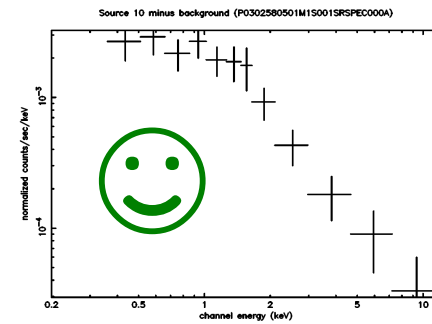


TapHandle The Goal

- **Browsing TAP services with a WEB browser**
 - Web browser well suited for data discovery
 - E.g. Quick look on data with the built-in browser features



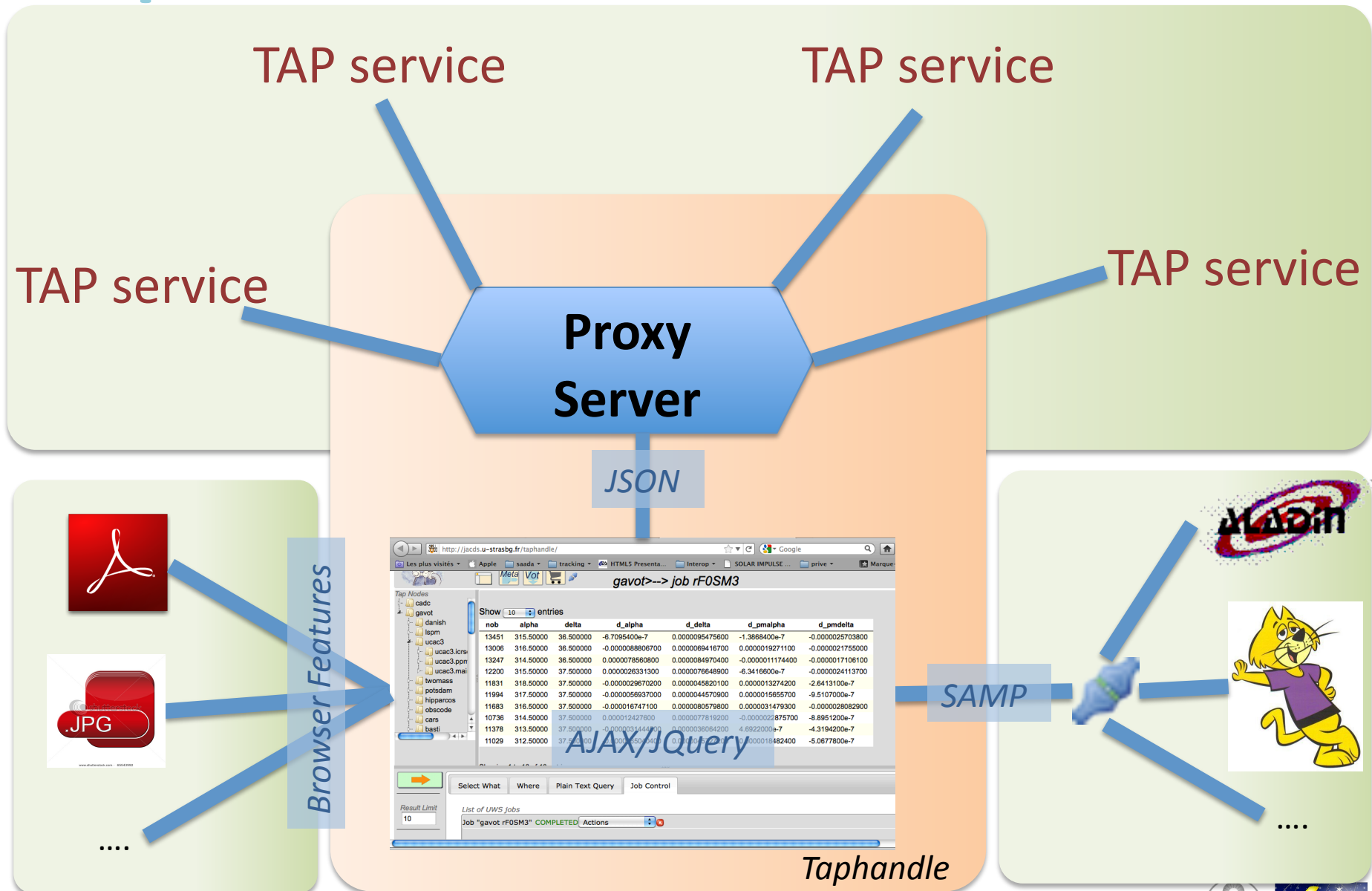
FITS XMM spectra displayed by VOSpec



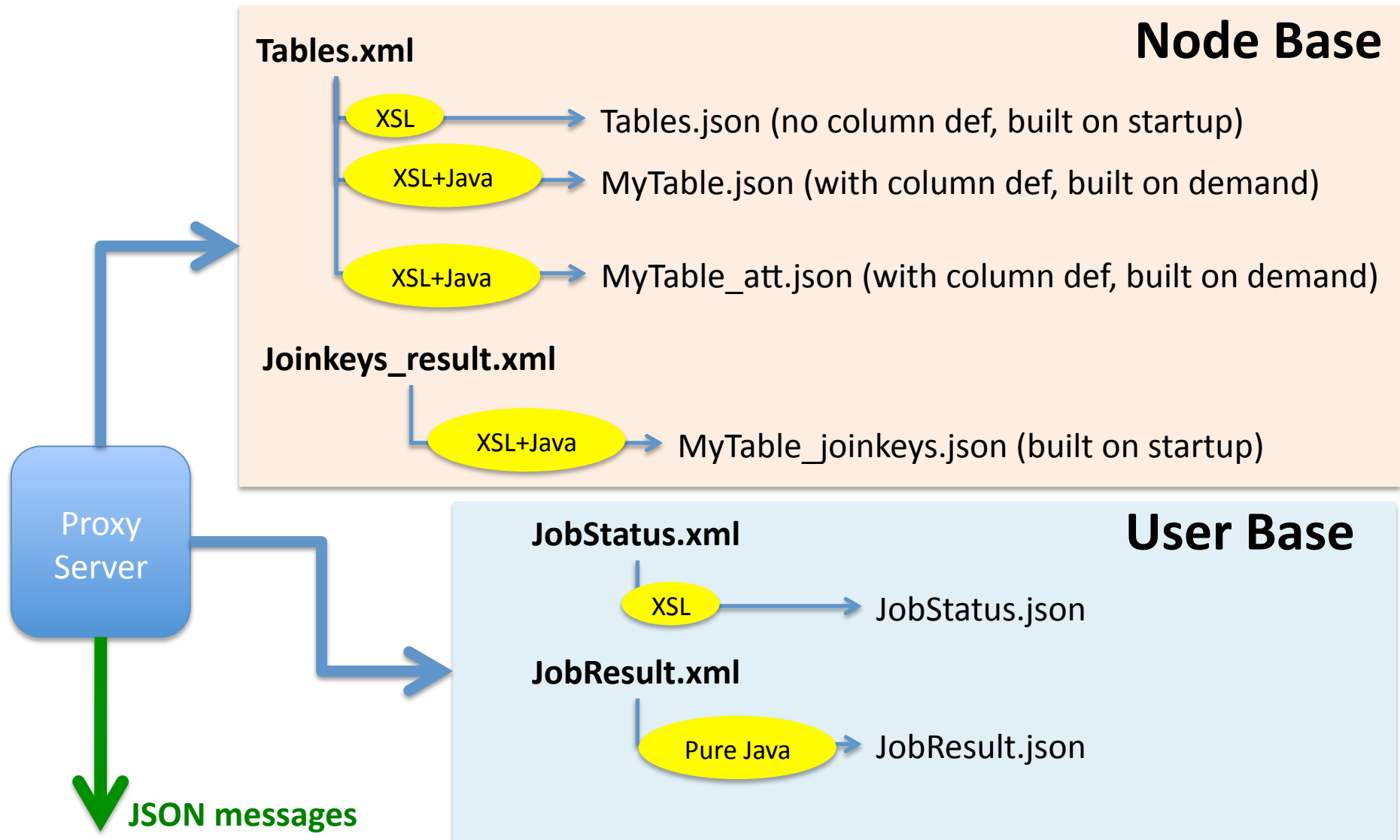
JPEG preview of this spectra

- SAMP Connection with scientific tools
- **Taking data from multiple TAP nodes**
 - Upload facility
 - Shopping cart facility

TapHandle Architecture



TapHandle The Proxy Server





TapHandle Sites which can be accessed

- **Some TAP nodes are resident in the proxy server**
 - Simbad, Vizier, CADC, Gavo, Heasarch, Xcatdb
- **Users can connect any other site by giving its URL**
 - New sites are added to the node Base
 - Meta data becomes accessible for all other users but there is no notification (to be improved).
- **No connection with the registry yet**
 - ^C ^V of the URL from the registry page.





TapHandle The Baptism of Fire

- **Service Compliance**

- Asynchronous mode not implemented
- Missing meta data
- Missing ADQL features (geometry)

http://cass123-zone1.ast.cam.ac.uk/TPMHaloCat/TAP	Connection Timeout
http://wfaudata.roe.ac.uk/pssa-dsa/TAP	Error 503
http://voparis-srv.obspm.fr/srv/tap-titan_abundance?	No TAP schema no async mode
http://jvo.nao.ac.jp/skynode/do/tap/sxds_v1	Error 500



TapHandle : The Baptism of Fire

- Unexpected characters sequences

Encoded URL

```
<uws:results>
  <uws:result id="result" xlink:type="simple" xlink:href="http%3A%2F%2Ftapvizier.u-strasbg.fr%3A80%2FTAPV%2F%2Ftap%2Fasync%2F1350586799256A%2Fresults%2Fresult" />
</uws:results>
```

```
<results>
  <result id="resultsTable" xlink:href="/xamin/vo/tap/async/1350587039055_5" /results/result"/>
</results>
```

Missing server

```
<table>
  <table type="base_table">
    <name>c51391801t2</name>
    <description>BVRI photometry of  $\gamma$  Uma  $\backslash$ vizContent{timeSerie}{\wGraph{J/AJ/139/1801/./table2}{P=0.47899678}}{lightCurve}</description>
  </table>
```

Latex sequence





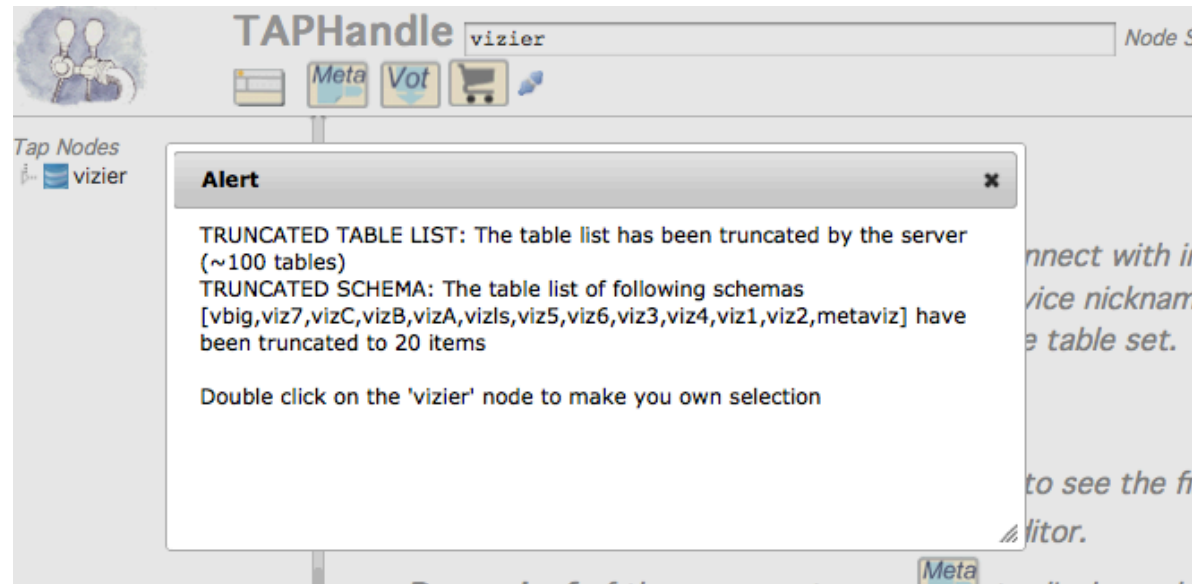
TapHandle The Baptism of Fire

- **Preventing the Metadata Flood**

- The server only sends the column description of the tables which are really accessed.

- The server truncates the table list to 100 items

- The client limits the number of table to 20 per schema.



- **A filter service allow to access to others tables**



TapHandle Helping to identify resources

- Tooltips provide information about any data node.

– At table level:

• Yo can either
• Double click
Then access bo

– At column level

logeps	log	Search:			
-0.43000000	45	Monochromatic luminosity at 3000{AA}			
-0.58000000	44	Name: logL3000			
-0.50000000	45	Unit: [10-7W]			
-0.82000000	45	UCD: phys.luminosity			
		UType:			
		DataType: DOUBLE			
-0.38000000	45.260000	220090821	8.3700000	3442	20.490000
-0.98000000	45.060000	140520998	8.7600000	6286	20.890000

– But what about the service level

Welcome to Tap
Select first the



TapHandle Tap extra features helping TAP service browsing

- **TapHandle works fine with current TAP implementations but some TAP enhancements would greatly help users to have an accurate view on the data set they are exploring**
- **New capabilities**
 - Returning the curation and/or data provider description.
 - Returning a simple list of schema and tables
 - Returning the columns of one table
- **Taking advantage of UTypes**
 - Deriving URIs from Utypes attached to columns or table or whatever
 - Accessing to the related DM could allow a fine setup of the query form taking in account units, range of values...

