MOC usage in Sitools2/MIZARD tool

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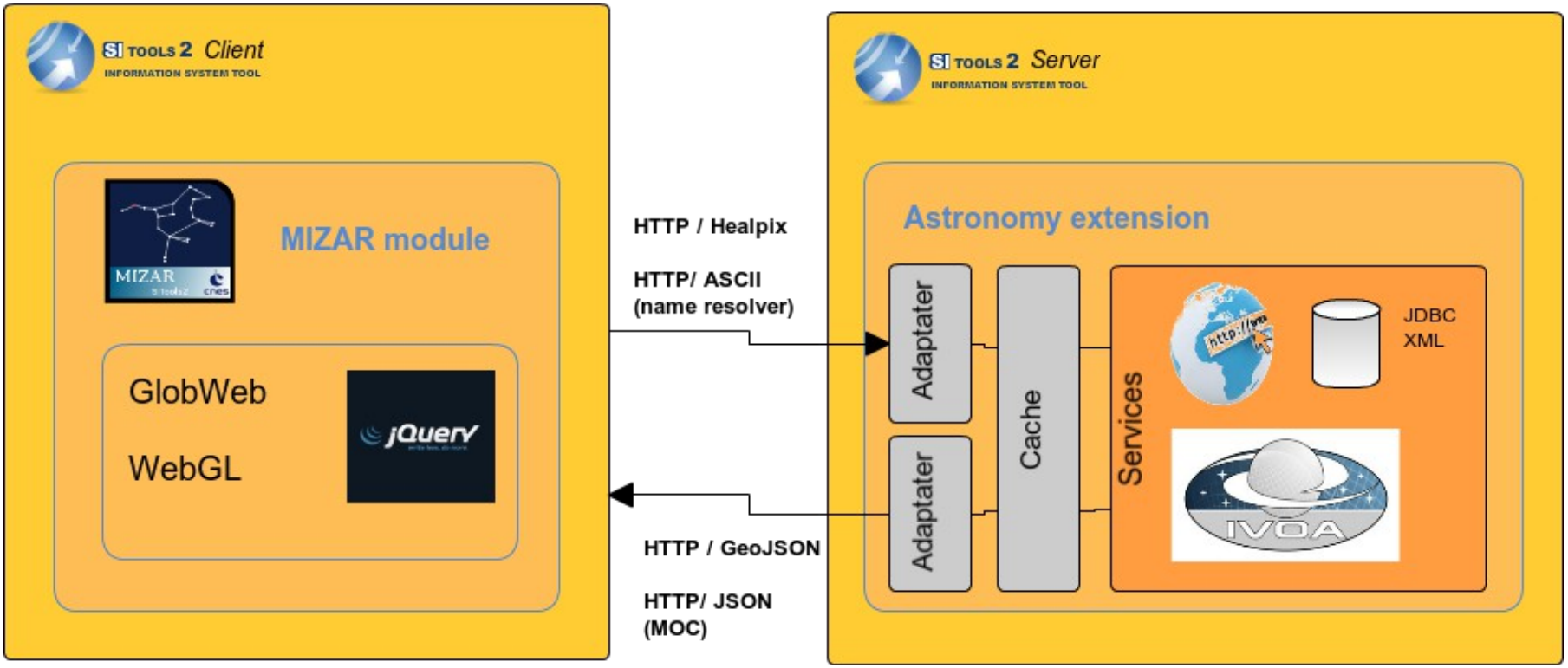
MIZAR, a sitools2's plug-in

SITools2 (http://sitools2.sourceforge.net/) is a web generic platform for which features can be extended by plug-ins. A sky browser plug-in has been implemented in a CNES R&D context.



MIZAR (http://demonstrator.telespazio.com/sitools/client-user/Mizar/project-index.html) gives the possibility to mix data services (VO services, own service) in the same map with the benefits of webGL technology.

The user Need

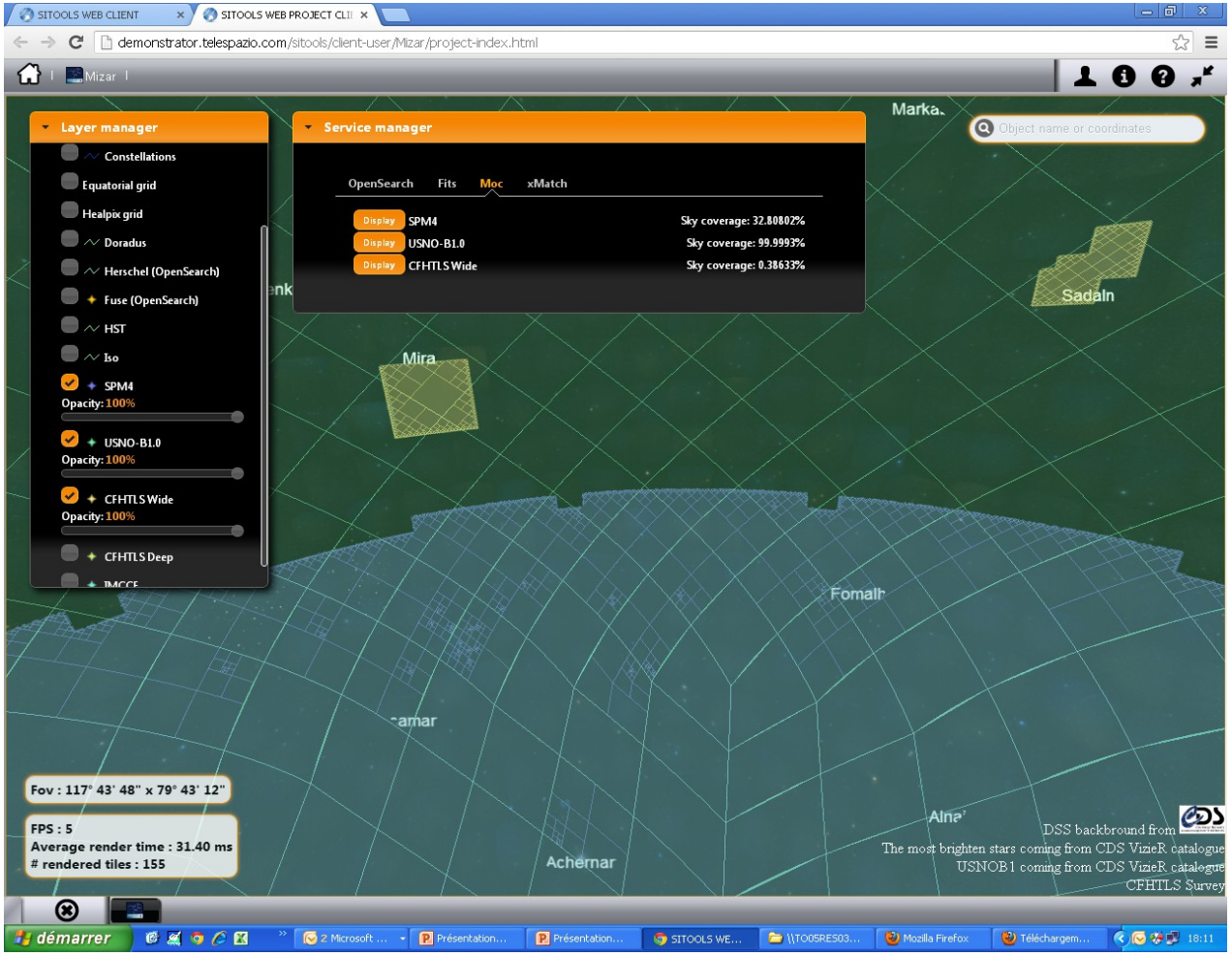
What is the need ?

- As user, I want to see the sky coverage of layers so that
- I can find quickly the interesting layers to request
- I can find the intersection of several layers (multi-wavelength missions analysis)
- I can visualize complex shapes with « holes »

Existing services from data provider

- VO services
- No pagination => the number of records is truncated in the response
- When to much data is returned, it takes time to be transfered, parsed and displayed
- When to much data is returned, to much memory is needed to display all points.
- No standardized service
- Footprint service [CDS] : http://alasky.u-strasbg.fr/footprints/

Why do we use the MOC in MIZAR



- Optimal representation of a space coverage (limitation of the number of points to plot by the use of the multi-order representation)
- Complex representation of a shape (with holes)
- Fast intersection computation
- Fast and simple area computation
- JSON output : the ideal companion of AJAX

Feedback

Technically

- MOC matchs perfectly with the MIZAR need
- For each CDS catalog, it exists a MOC => The abstract layer of MIZAR links each CDS CSP with its MOC representation ☺

Problem

- Only CDS provides a MOC service (http://alasky.u-strasbg.fr/footprints/).

What MIZAR needs in the future

- The SIAP, SSAP, CSP content represented by a MOC