

Introducing the IVOA

ASTERICS DADI 2nd ESFRI Forum Newcomer session

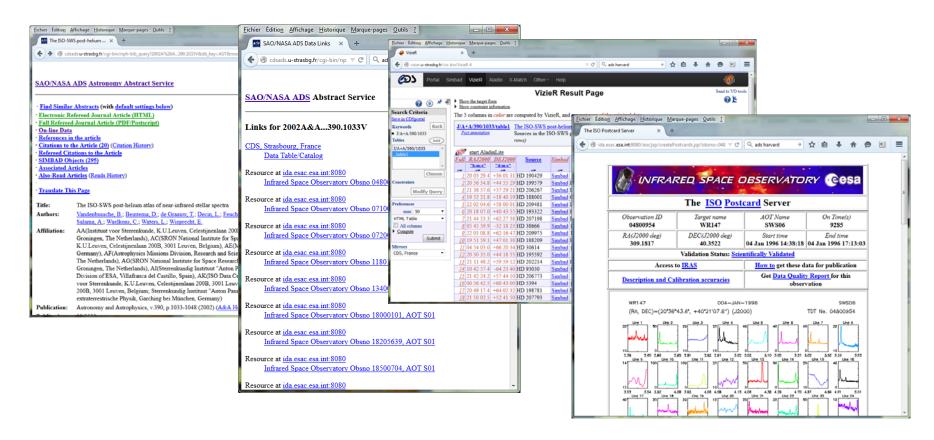


From networking to interoperability

- Astronomy has been a pioneer in the development of on-line resources
- Also early standards: FITS, bibcode
- Networked using http links very early in the 90's
 - CDS, NED, ADS, observatory archives, journals
- End of the 90's: Go beyond networking and develop interoperability of data and tools



Resource networking still in use





IVOA precursor

- OPTICON Working Group on Interoperability (2001)
- International participation
- First meeting in Strasbourg, 28-29 January 2002
- First standard: VOTable, March 2002







The IVOA

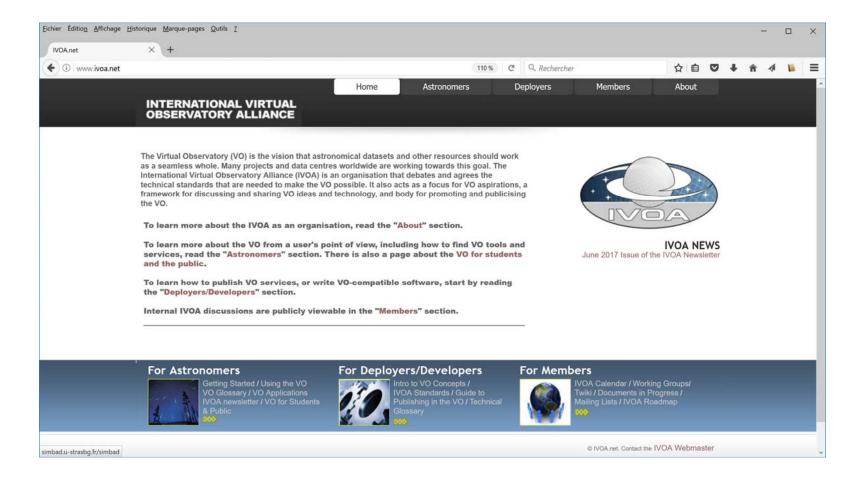
- International Virtual Observatory Alliance
- Created in May 2002 to define interoperability standards for astronomy, the so-called astronomical virtual observatory
- National (funded) VO initiatives + intergovernmental organisations (ESA) + Euro-VO (EC funded)
- Best effort/in-kind contributions
- Created by Europe, UK, USA
- Now present on the 5 continents
- Two plenaries/year, « Nothern Fall » with ADASS

IVOA members



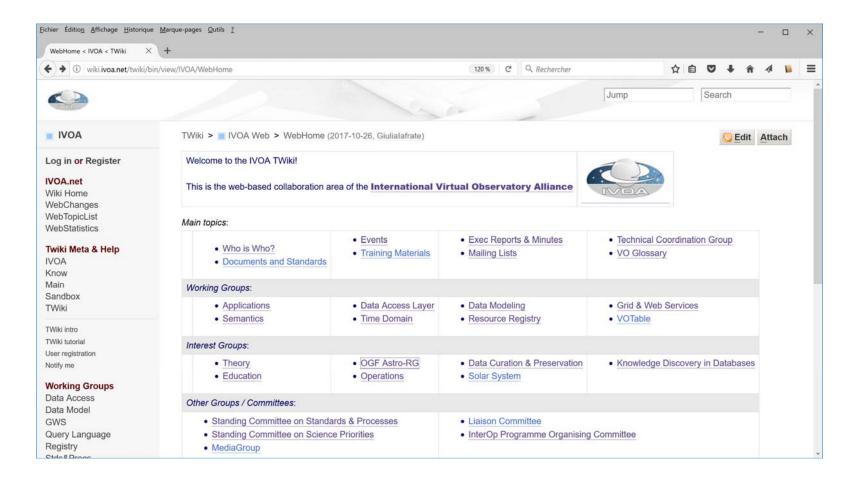


The IVOA web site



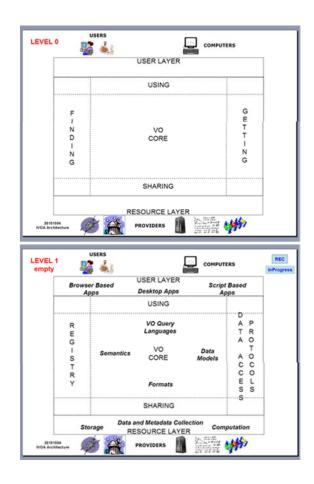


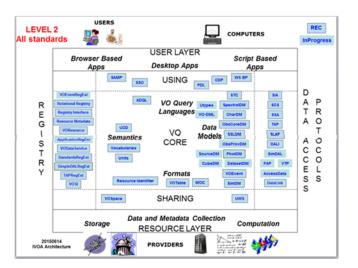
IVOA Twiki





IVOA architecture



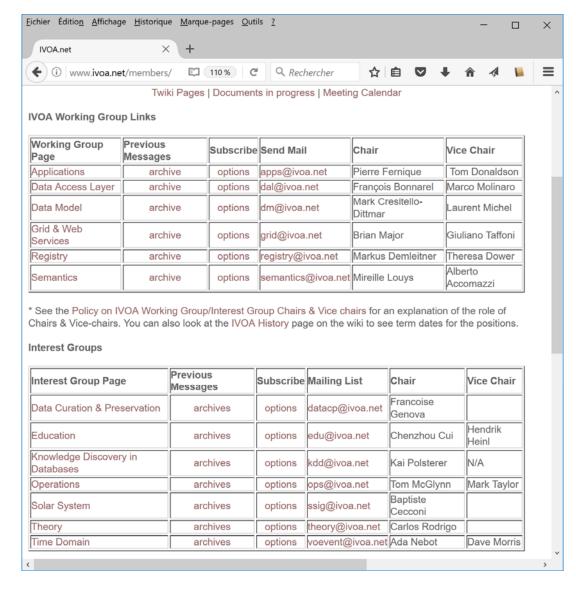




IVOA bodies

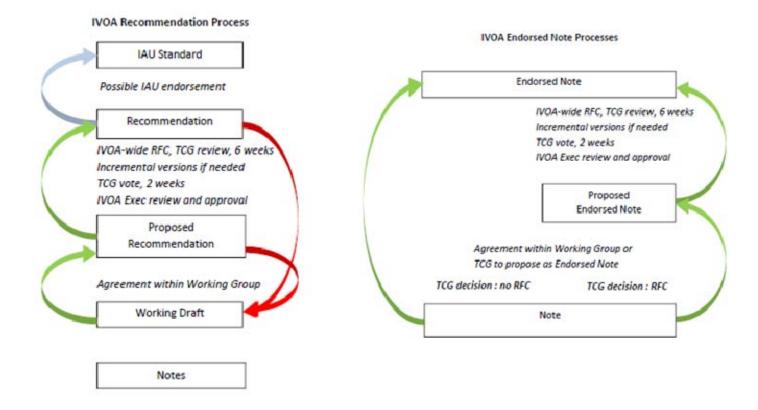
- Executive Board : representatives of the members
 Chair/Vice-Chair/Secretary
- Working Groups (standards) and Interest Groups Chair/Vice-Chair
- Technical Advisory Board
 Chair/Vice-Chair/Group Chairs and Vice-Chairs
- Standing Committees
 Science Priorities, Standards and Processes, ...







IVOA processes



IVOA Standards



IVOA Document Standards Version 2.0

IVOA Recommendation 17 May 2017

Current and previous versions: http://www.ivoa.net/documents/DocStd

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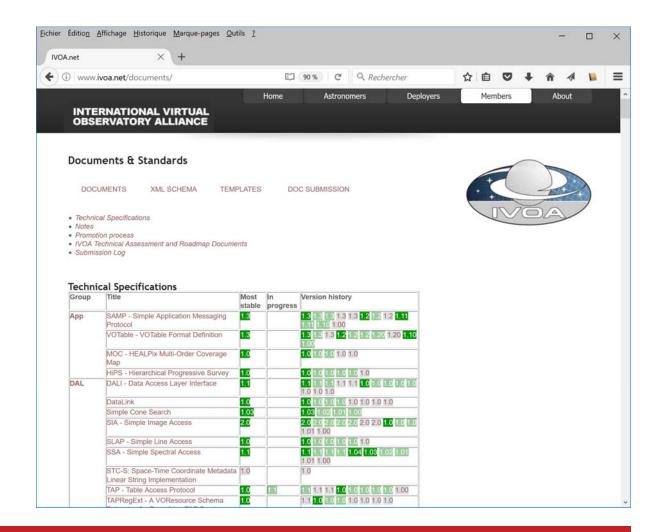
Abstract

This document describes the types of official IVOA documents and the process by which documents are advanced from Working Drafts to formal Recommendations and from Notes to Endorsed Notes.

Status of this document

This document has been produced by the IVOA Standing Committee on Standards and Processes. It has been reviewed by IVOA Members and other interested parties, and has been endorsed by the IVOA Executive Committee as an IVOA Recommendation. It is a stable document and may be used as reference material or cited as a normative reference from another document. IVOA's role in making the Recommendation is to draw attention to the specification and to promote its widespread deployment. This enhances the functionality and interoperability inside the Astronomical Community

A list of <u>current IVOA Recommendations and other technical documents</u> can be found at http://www.ivoa.net/documents/.





IVOA status

- A fully operational framework for data and tool interoperability
- Building blocks reused by data providers in their systems
- Fully open, distributed and inclusive system, no centre
- 100+ « authorities » declared at least a resource in the registry
- Hidden from end-users, because it works!
- Current priorities (also ASTERICS'!)
 Large project (ESFRI et al) needs
 - Multi-D first 'caravan of standards' completed >>> implementation and feedback phase
 - Time domain