

Le projet Euro-VO Data Centre Alliance



F. Genova, DCA, Réunion Générale AS OV, 28 novembre 2006

International Virtual Observatory Alliance



2003



2006



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L'IVOA

- Créée en mai 2002
- Une alliance de projets nationaux sur la base 'best effort'
- Discussion des standards d'interopérabilité
 - Feuille de route
 - Groupes de travail/'groupes d'intérêt'
 - Un processus de standardisation
- Phase de transition vers la mise en oeuvre par les centres de données (en cours depuis le début mais généralisation)
- En cours: évaluation du fonctionnement



WebHome - IVOA - i v o a . n e t - Microsoft Internet Explorer

Fichier Edition Affichage Favoris Outils ?

Précédente Recherche Favoris

Adresse <http://www.ivoa.net/twiki/bin/view/IVOA/WebHome> OK

THIS WEB

- Moscow Interop
- WebHome
- WebChanges
- WebTopicList
- WebStatistics

ALL WEBS

- Astrodata
- IVOA
- Know
- Sandbox
- Twiki
- Trash

Twiki intro

Twiki tutorial

User registration


Notify me

W/I GROUPS

- Data Access
- Data Model

Welcome to the IVOA Twiki!

This is the web-based collaboration area of the **International Virtual Observatory Alliance**



Main topics:

- Who is Who?
- Events
- Reports & Minutes
- Forums
- Technical Milestones

Working Groups:

- Resource Registry
- Data Modeling
- VO Event
- Grid & Web Services
- VOTable
- Semantics
- Data Access Layer
- VO Query Language
- Standards & Processes

Interest Groups:

- Applications
- Theory
- GGF Astro-RG
- Data Curation & Preservation



IVOA Documents - Microsoft Internet Explorer

Fichier Edition Affichage Favoris Outils ?

Précédente Recherche Favoris

Adresse http://www.ivoa.net/Documents/ OK

Technical Specifications | Notes | Promotion process | Submission Log

Technical Specifications

Title	Group	Most stable	In progress	Version history						
IVOA Astronomical Data Query Language	VQL	1.01	RFC	1.01	1.00					
Data Model for Astronomical DataSet Characterisation	DaM	1.00		1.00						
IVOA Document Standards	SDP	1.00		1.00	1.00					
IVOA Identifiers	ReR	1.11	RFC	1.11	1.10	1.10	1.10	1.00		
Maintenance of the list of UCD words	semantics	1.20		1.20	1.20	1.10	1.00			
IVOA Registry Interfaces	ReR	1.00		1.00						
Resource Metadata for the Virtual Observatory	ReR	1.01	1.10 RFC	1.10	1.10	1.01	1.01	1.00	1.00	
Simple Image Access	DAL	1.00		1.00						
IVOA Single-Sign-On Profile: Authentication Mechanisms	GWS	1.00		1.00						
IVOA SkyNode Interface	VQL	1.01	RFC	1.01	1.00					
Space-Time Coordinate for the Virtual Observatory	DaM	1.21	RFC	1.21	1.20	1.10	1.00			
An IVOA standard for Unified Content Descriptors	semantics	1.10		1.10	1.10	1.06	1.05	1.03		
UCD1+ Controlled Vocabulary	semantics	1.11	1.21 RFC	1.21	1.20	1.20	1.11	1.11	1.10	1.02
Sky Event Reporting Metadata (VOEvent)	VOE	1.11		1.11	1.11	1.10	1.01			
VOResource: an XML Encoding Schema for Resource Metadata	ReR	1.02		1.02	1.01	1.00				
IVOA Spectral Data Model	DaM	1.00		1.00						
VOTable Format Specification	VOT	1.10		1.10	1.00					

Maturity level: ■ Recommendation ■ Proposed Recommendation ■ Working Draft

Most stable: New systems should be developed against this version with the highest maturity level.



IVOA Recommendation - VOTable Format Definition Version 1.1 - Microsoft Internet Explorer

Fichier Edition Affichage Favoris Outils ?

Adresse <http://www.ivoa.net/Documents/latest/VOT.html> OK

International Virtual Observatory Alliance

IVOA Documents



IVOA Recommendation

**VOTable Format Definition
Version 1.1**

IVOA Recommendation 11 August 2004

Interest/Working Group:
<http://www.ivoa.net/twiki/bin/view/IVOA/IvoaVOTable>

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Abstract

This document describes the standards for the version 1.1 of the VOTable format, and supersedes the version 1.0 of 15 April 2002.

Status of this document



F. Genova, DCA, Réunion Générale AS OV, 28 novembre 2006



En Europe

- Premier groupe de travail Interopérabilité (OPTICON, 2001), repris par IVOA
- Projet R&D AVO (2001-2004)
- Euro-VO: ‘nœuds nationaux’ et Agences européennes
 - Allemagne, Espagne, France (INSU), Grande-Bretagne, Hollande, Italie, ESA, ESO
- Memorandum of Understanding, sur la base ‘best effort’

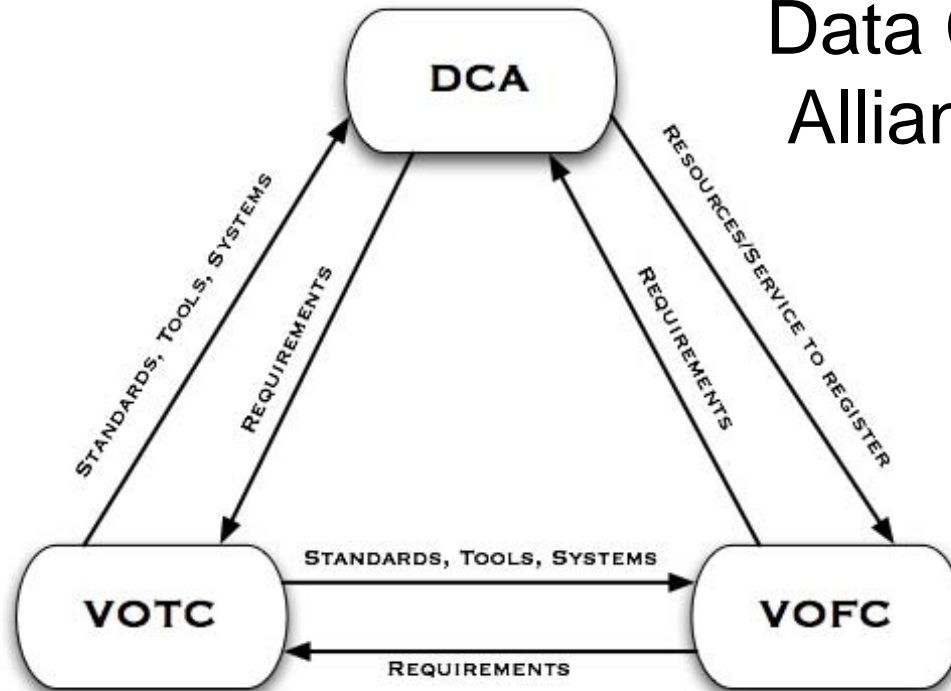




Data Centre Alliance

Facility Centre

Projets techno.



Data Centre Alliance (1)

- ‘Coordination Action’ dans le cadre ‘Communication Network Development – eInfrastructure’ cadre différent du cadre ‘Infrastructure’ habituel
- Début: 1^{er} septembre 2006, 28 mois
- Support aux centres de données pour la mise en œuvre des standards de l’OV
- Au passage: recensement des Centres de Données européens




Data Centre Alliance (2)

- Work Packages
 - Stratégie DCA (INSU)
 - Mise en œuvre du VO dans les centres de données (ESA/ESO) et retour d'expérience sur l'implémentation (AstroGrid)
 - VO Theorique (mise en place d'un Groupe de Travail) (GAVO)
 - Relations avec la Grille (INAF)
 - Aide aux centres de données des autres pays européens (INTA)



WebHome < EuroVODCA < TWiki - Microsoft Internet Explorer

Fichier Edition Affichage Favoris Outils ?



Jump Search

EuroVODCA

Log In or Register

EuroVODCA Web

- Create New Topic
- Index
- Search
- Changes
- Notifications
- Statistics
- Preferences
- Help

Webs

- EuroVODCA
- Main
- Sandbox
- TWiki

Links

- Euro-VO
- IVOA
- VOTech
- Communication Network
- Development in FP6

EuroVODCA Web > WebHome

r19 - 15 Nov 2006 - 23:41:42 - AndreSchaaft

Welcome to the Euro-VO Data Centre Alliance TWiki

This is the web-based collaboration area of the [Euro-VO Data Centre Alliance](#) project. This project is supported by EU in the framework of the FP6 infrastructure [Communication Network Development](#) initiative (project RI031675). It started on 1 September 2006, for a duration of 28 months.

General information

- [Project overview](#)
- [Project Partners](#)
- [Who is Who](#)
- [Schedule](#)
- [Organisation](#)
- [Data Centres in the VO](#)

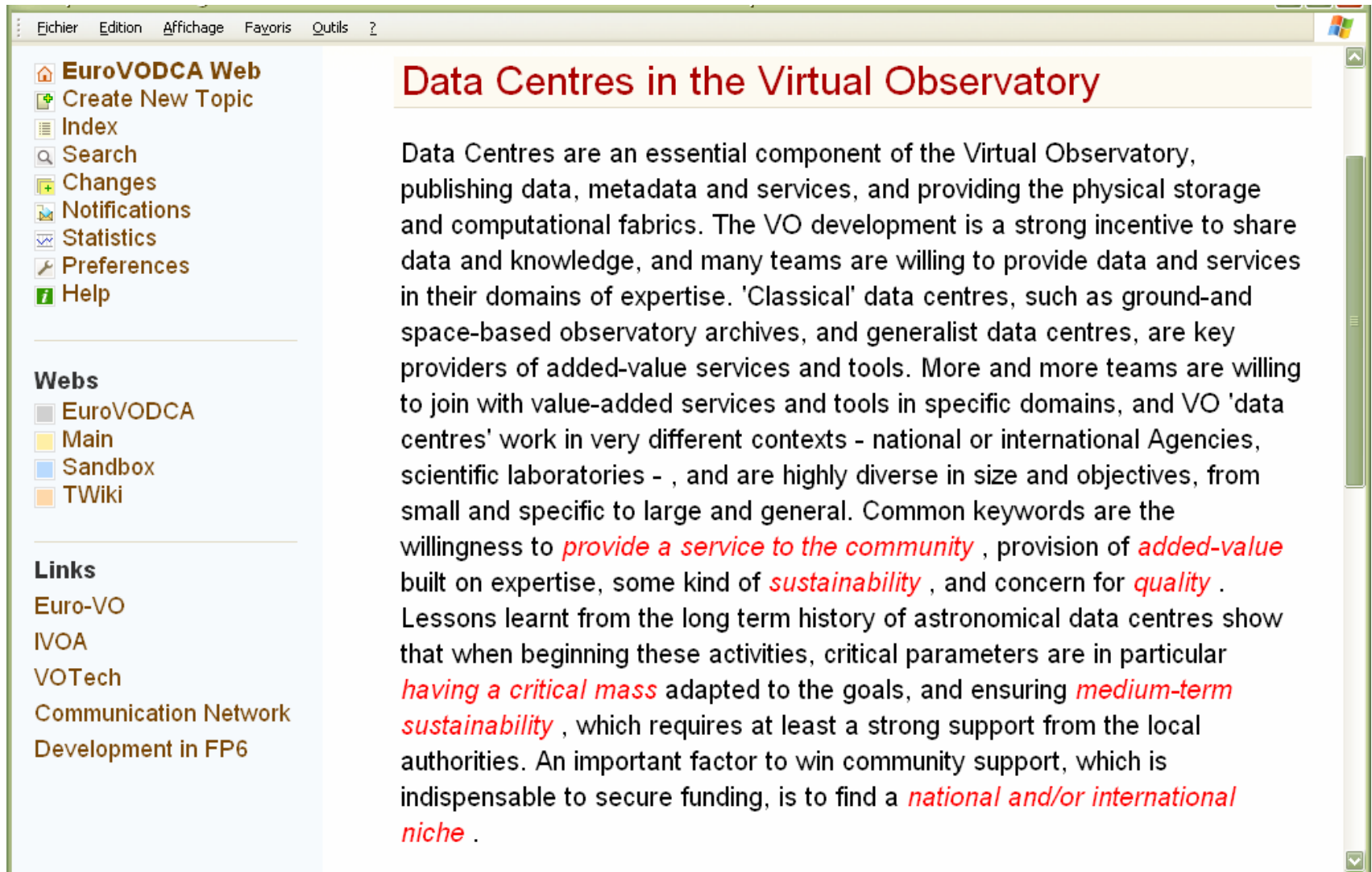
EuroVO-DCA Bodies

- [Board](#)
- [Project Coordination Team](#)
- [Internal Science Team](#)
- [Theoretical astronomy Expert Group](#)

Work Packages

- [WP1: Management](#)
- [WP2: Strategy](#)
- [WP3: Support to VO take-up and implementation](#)
- [WP4: Theory](#)
- [WP5: Coordination with GRID](#)
- [WP6: Support to data centres from other European countries](#)



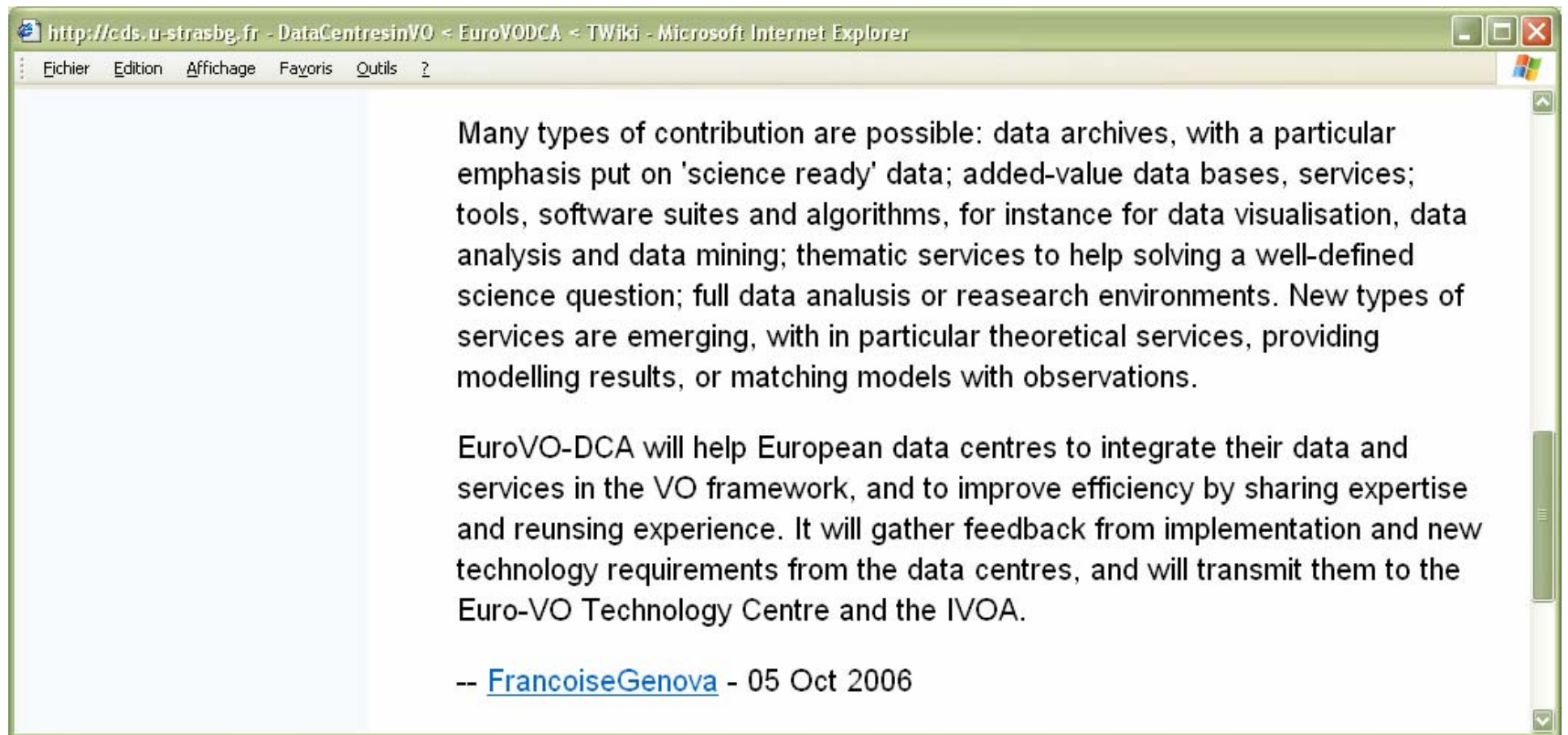


The screenshot shows a web browser window with a menu bar at the top containing 'Fichier', 'Edition', 'Affichage', 'Favoris', 'Outils', and '?'. The browser is displaying a website with a left-hand navigation menu and a main content area. The navigation menu includes 'EuroVODCA Web', 'Create New Topic', 'Index', 'Search', 'Changes', 'Notifications', 'Statistics', 'Preferences', and 'Help'. Below this are sections for 'Webs' (EuroVODCA, Main, Sandbox, TWiki) and 'Links' (Euro-VO, IVOA, VOTech, Communication Network, Development in FP6). The main content area features a title 'Data Centres in the Virtual Observatory' in red, followed by a detailed text paragraph.

Data Centres in the Virtual Observatory

Data Centres are an essential component of the Virtual Observatory, publishing data, metadata and services, and providing the physical storage and computational fabrics. The VO development is a strong incentive to share data and knowledge, and many teams are willing to provide data and services in their domains of expertise. 'Classical' data centres, such as ground-and space-based observatory archives, and generalist data centres, are key providers of added-value services and tools. More and more teams are willing to join with value-added services and tools in specific domains, and VO 'data centres' work in very different contexts - national or international Agencies, scientific laboratories - , and are highly diverse in size and objectives, from small and specific to large and general. Common keywords are the willingness to *provide a service to the community* , provision of *added-value* built on expertise, some kind of *sustainability* , and concern for *quality* . Lessons learnt from the long term history of astronomical data centres show that when beginning these activities, critical parameters are in particular *having a critical mass* adapted to the goals, and ensuring *medium-term sustainability* , which requires at least a strong support from the local authorities. An important factor to win community support, which is indispensable to secure funding, is to find a *national and/or international niche* .





DCACensus < EuroVODCA < TWiki - Microsoft Internet Explorer

Echier Edition Affichage Favoris Outils ?

Précédente Recherche Favoris

Adresse <http://cds.u-strasbg.fr/twikiDCA/bin/view/EuroVODCA/DCACensus> OK

Create New Topic

- Index
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- Help

Webs

- EuroVODCA
- Main
- Sandbox
- TWiki

Links

- Euro-VO
- IVOA
- VOTech
- Communication Network
- Development in FP6

EuroVO-DCA project: Census of European Data Centres

- Definition of 'data centres' in the VO context
- As discussed during the first Board meeting, the census will be organized
 - per partner
 - per category
 - data archives/'science ready data
 - Added-value databases and services
 - Tools
 - Software suites
 - Theory
 - Thematic services
 - it will differentiate data centres in operation and in project
- For each data centre, the following information will be provided if possible
 - Name
 - Location(s)
 - Laboratory/authority in charge
 - Contact person
 - Scientific contact
 - Web page
 - Services provided

+ priorités

Terminé Internet



Modes d'action (1)

- Financement de réunions
 - Workshops type Euro-VO Workshop
 - Atelier Théorie
 - Atelier Relations avec la Grille
 - Réunions ‘thématiques: spectroscopie en février 2006

On retrouve des thèmes importants d'OV France – participation de la communauté concernée indispensable (financement DCA + OV France si nécessaire)
- Visites et échanges techniques



Modes d'action (2)

- Un peu de manpower – pas pour le développement des services
- 1.5 h.an pour INSU à répartir au mieux (dont 6 mois théorie)
- Il va falloir définir des actions prioritaires au niveau OV France et attribuer ces 1.5 h.a de telle façon qu'il y ait un réel impact



Et la suite?

- Préparation du 7^{ème} Programme Cadre
- Cadre *e*Infrstructure, appels d'offres
Données et Communautés d'utilisateurs
- L'astrophysique apparaît comme une des communautés concernées





Pages

Pièces jointes

Commentaires

FP7 - e-Infrastructures strategy

Weather Forecast VO

Biomedics VO

Astrophysics VO

Scientific Data

Shared Scientific Resources

Communication Network

Bringing the best brains together and sharing the best scientific resources for producing the best science

European Commission Information Society and Media

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Etat des lieux Europe

- Planétologie
 - Projet Europlanet
 - Le groupe de travail Système Solaire d'OV
France fait passer la problématique OV
France dans Europlanet
- PNST
 - Recherche d'un successeur au projet EGSO

