



VAMDC

Virtual Atomic and Molecular Data Centre

**D2.1**

–

**Science/Technical Plan**

Version 0.3

Grant agreement no: 239108

Combination of Collaborative Projects & Coordination and Support Actions



### **Project Information**

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<http://voparis-twiki.obspm.fr/twiki/bin/view/VAMDC/WebHome>

### **Consortium:**

<b>Beneficiary Number *</b>	<b>Beneficiary name</b>	<b>Beneficiary short name</b>	<b>Country</b>	<b>Date enter project**</b>	<b>Date exit project**</b>
1(coordinator)	Centre National de la Recherche Scientifique	CNRS	France	Month 1	Month 42
2	The Chancellor, Masters and Scholars of the University of Cambridge	CMSUC	UK	Month 1	Month 42
3	University College London	UCL	UK	Month 1	Month 42
4	Open University	OU	UK	Month 1	Month 42
5	Universitaet Wien	UNIVIE	Austria	Month 1	Month 42
6	Uppsala Universitet	UU	Sweden	Month 1	Month 42
7	Universitaet zu Koeln	KOLN	Germany	Month 1	Month 42
8	Istituto Nazionale di Astrofisica	INAF	Italy	Month 1	Month 42
9	Queen's University Belfast	QUB	UK	Month 1	Month 42
10	Astronomska opservatorija	AOB	Serbia	Month 1	Month 42
11	Institute for Spectroscopy RAS	ISРАН	Russian Federation	Month 1	Month 42
12	Russian Federal Nuclear Centre All-Russian Institute of Technical Physics	RFNC-VNIITF	Russian Federation	Month 1	Month 42
13	Institute of Atmospheric Optics	IAO	Russian Federation	Month 1	Month 42
14	Corporacion Parque Tecnologico de Merida	IVIC	Venezuela	Month 1	Month 42
15	Institute of Astronomy of the Russian Academy of Sciences	INASAN	Russian Federation	Month 1	Month 42

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## **Document**

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Abstract	The objective of D2.1 is to describe VAMDC Science/Technical Plan on PM3. This plan corresponds to Activities in WP2: NA1 “Scientific/Technical Coordination of the network”. This plan is included in the VAMDC Project Plan.
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## Versioning and Contribution history

Version	Date	Reason for modification	Modified by
V0.1	21/10/2009	WP1 Draft	N. Walton
V0.2	21/10/2009	Milestones- T1 – List of People in charge of tasks	M.L. Dubernet
V0.3	22/02/2010	Change in schedule for Tasks 3 and 4	M.L. Dubernet

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## WP2 ACTIVITIES DESCRIPTION

<b>Work package number</b>	2		<b>Start date or starting event:</b>				1			
<b>Work package title</b>	NA1: Science/Technical Coordination of the network									
<b>Activity Type</b>	COORD									
<b>Participant id</b>	1	2	3	4	6	7	9	14	15	
<b>Person-months per beneficiary: (Total = EU + Node Contributions)</b>	12	9	9	2	6	6	6	6	6	

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### 1. WP2 Objectives

NA1 provides the scientific and technical work necessary for the operation of the VAMDC e-infrastructure developing its structures and integrating with other data services and placing the VAMDC in a more global context. NA1 will also provide effort for VAMDC to participate and interact with external infrastructure and standards groups such as EGEE, Euro-VO and the IVOA.

The organisation of WP2/NA1, and the technical coordination of the network, is overseen by the VAMDC Executive Project Team (EPT)

The EPT includes WPs leaders (WP2 to WP8). The EPT will have monthly teleconference meetings as well as bi-annual face-to-face meetings. It will collect reports from the SAs and JRAs and prepare the annual technical reports for the VPB. The EPT will be chaired by the VAMDC Deputy (Technical) Coordinator who is a member of the VAMDC Project Board and will advise the VPB on the technical validity and relevance of the project strategic plans.

WP2 leader is CMSUC (2), with co-leadership by CNRS(1)

### 2. WP2 Milestones and Deliverables

## Milestones

M2.1	Approval of WP Plan	WP2	CMSUC/CNRS	Month 3	
M2.2	EPT meetings	WP2	CMSUC/CNRS	Months 3, 10, 16, 22, 28, 34, 38, 42	
M2.3	Approval of Revised WP WorkPlan	WP2	CMSUC/CNRS	Months 10, 22, 34	
M2.4	Approval of Final WP Reports	WP2	CMSUC/CNRS	Month 42	

## Deliverables

### ***D2.1 Science / Technical (S/T) Plan (PM 3)***

Annual reports will provide publicly available summaries of the activity of the EPT for each project year.

***D2.2 S/T Report to be included in report to EU– Year 1 (PM 10)***

***D2.3 S/T Report to be included in report to EU– Year 2 (PM 22)***

***D2.4 S/T Report to be included in report to EU – Year 3 (PM 34)***

***D2.5 Final S/T Report to be included in final report to the EU (PM41)***

***Annual S/T Plan revisions included in Revised Annual VAMDC Project Plans – Year 1,2,3***

Internal deliverables for year 1 activities are listed below.

## 3. WP2 Tasks Description

WP2 Leader	N. Walton (CMSUC(2)), J. Bureau (CNRS/LPMAA)	
Task Number	Leader	Other Partners
1	N. Walton (CMSUC)	All others
2	N. Walton (CMSUC)	All others
3	T. Ryabchikova (INASAN)	All others
4	E. Roueff (CNRS/LUTH)	All others
5	E. Roueff (CNRS/LUTH)	All others

### ***Task 1: Internal Technical Activities (lead by CMSUC(2), all partners)***

Task 1 deals with cross disciplinary technical coordination, identification and evaluation of proposed generic tools, preparation of plans for testing and benchmarking activities. This task also includes the organisation of the EPT meetings.

### ***Task 2: Connection to External Technical Project (lead by CMSUC(2), partners 1,3,4,14)***

Task 2 deals with coordination with IVOA (International Virtual Observatory Alliance ), Euro-VO, the IDIS Data service of the Europlanet EU Research Infrastructure, EGEE

(European Grid E-science Environment). The EPT will host annual small focused meetings/workshops where relevant people from the external projects will be invited to present the status of their achievements. The EPT will assess the degree of interoperability with those projects, which will in turn influence the output of task 1.

***Task 3: Collect the users and producers specifications (lead by INASAN(15), all partners)***

The EPT will gather users/producers requirements by a number of techniques such as questionnaires, small face-to-face meetings and so forth.

***Task 4: Policies concerning Standards (lead by CNRS(1), all partners)***

Task 4 will define, review and update the way standards will be adopted and to that effect it will interact with organisations promoting standards, e.g. external projects cited in task 2, NIST project for defining units in XML schema. Other organisations will be identified during the project if they happen to be relevant to VAMDC.

***Task 5: Policies concerning publication in VAMDC (lead by CNRS(1), all partners)***

Other missions of the EPT are to define, update and maintain the policies concerning the publication of resources in VAMDC.

## 4. WP2 Tasks Description for Period 1

Full task activities are detailed at the VAMDC wiki on the WP2/NA1 pages – see <http://voparis-twiki.obspm.fr/twiki/bin/view/VAMDC/WP2>

### Task 1: Internal Technical Management

- The EPT meetings occur once every two months, with the kickoff EPT-0 meeting 7 Oct 2009 (see <http://voparis-twiki.obspm.fr/twiki/bin/view/VAMDC/EptTeleOct2009>). All EPT meetings are fully minuted at <http://voparis-twiki.obspm.fr/twiki/bin/view/VAMDC/Na1Ept>
- NA1 will organise representation at partner VAMDC related meetings
  - High-Russ 2009 Conference, Lake Baikal, July 2009
  - Conferencia Latinoamericana de Computación de Alto Rendimiento: CLCAR-2009: Merida, Venezuela, Sep 2009
- In coordination with SA1, a census of all VAMDC resources will be undertaken (M4)
- A VAMDC standard tool set will be determined and introduced (M6)
- The quality assurance systems for VAMDC will be defined (M9) and introduced at the second project meeting.

### Task 2: External Coordination.

Project representatives will coordinate with relevant external partners, directly and through EC organised events:

- 7<sup>th</sup> Concertation meeting on e-Infrastructure (FP7 funded test beds) in Brussels (Belgium) (12-13 Oct 2009) – see <http://www.beliefproject.org/events/7th-e-infrastructure-concertation-meeting>
- Attendance at the IVOA InterOp meetings

- Autumn 2009 – Nov 2009 @ ESO, Garching, Germany
- Spring 2010 – May 2010 @ CADC, Victoria, Canada
- Attendance at Euro-VO Technology Forum meetings
  - see <http://cds.u-strasbg.fr/twikiAIDA/bin/view/EuroVOAIDA/AIDASchedule>
- Attendance at relevant EuroPlanet IDIS technical meetings.
  - See <http://www.europlanet-ri.eu/idis>
- Attendance at relevant EGEE and EGI technical meetings
- VAMDC external technical workshops – two will be organised in the first year
  - Data Access (M6)
  - Applications and run time environments (M9)

### **Task 3: User / Producer specifications**

- The main activity will be in organising a census of user specifications
  - Initial requirements gathering at Kick-Off meeting – Paris Oct 26-27 2009
  - Census of requirements (M6)
  - Report of requirements for inclusion in year one technical plan (M9)

### **Task 4: Standards Policies**

- Development of standards policy
  - Initial discussion at Annual meeting April 2010
  - Release of preliminary standards policy to VAMDC website (M11)

### **Task 5: Publications Policies**

- Development of publication policy
  - Initial discussion at Annual meeting April 2010
  - Release of preliminary publication policy to VAMDC website (M11)